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1917-1918

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THE CATALOGUE
OF
BROWN UNIVERSITY

ONE HUNDRED AND FIFTY-FOURTH YEAR

1917-1918

MAR 21

PROVIDENCE, RHODE ISLAND
PUBLISHED BY THE UNIVERSITY
1917

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CALENDAR 1917–1918

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THE UNIVERSITY CALENDAR 1917–18‡

1917

September 5.	*Wednesday.* Annual Meeting of the Corporation (first Wednesday in September).
September 10–22.	*Monday to Saturday inclusive.* Field work in Surveying (Civil Engineering 1).
September 18–24.	*Tuesday to Monday inclusive.* Examinations for admission to the Freshman class and to advanced standing.
September 24, 25.	*Monday and Tuesday.* Registration of new students and enrolment of students previously in residence.
September 26.	*Wednesday,* 9 a.m. Academic Year begins (fourth Wednesday in September). Registration and enrolment of Graduate students at the Registrar's office.
October 3.	*Wednesday.* Examination in Greek for the President's Premiums, 2 Sayles Hall, 2.30 p.m.
October 10.	*Wednesday.* Examination in Latin for the President's Premiums, 1 Sayles Hall, 2.30 p.m.
October 17.	*Wednesday.* Examination in Mathematics for the Hartshorn Premiums, 26 Wilson Hall, 2 p.m. Meeting of the Corporation.
October 24.	*Wednesday.* Examination in French for the Hicks Premiums, 1 Sayles Hall, 2.30 p.m.
October 31.	*Wednesday.* Examination in German for the Caesar Misch Premiums, 5 Sayles Hall, 2.30 p.m.
November 29.	*Thursday.* Thanksgiving Day. No University exercises.
December 5.	*Wednesday.* Preliminary discussion for the Class of 1880 Prizes.

‡ This is the revised emergency calendar adopted December, 1917. It supersedes dates printed in the following pages.

December 7.	*Friday.* Last day for receiving essays submitted in competition for the Class of 1880 Prizes.
December 12.	*Wednesday.* Public discussion for the Class of 1880 Prizes.
December 22.	*Saturday.* Christmas Recess begins.
1918	
January 2.	*Wednesday.* Christmas Recess ends.
January 3.	*Thursday,* 8 a.m. Recitations begin.
January 15.	*Tuesday.* Last day for receiving applications for examinations to remove entrance conditions.
January 21.	*Monday.* Last day for applications of competitors for the Carpenter Prizes in Elocution.
January 21–26.	*Monday to Saturday inclusive.* Semester examinations.
January 27, 28.	*Sunday and Monday.* Mid-year Recess.
January 28.	*Monday.* Enrolment of Undergraduate students and candidates for admission to the Freshman class.
January 29.	*Tuesday,* 8 a.m. Second Semester begins. Enrolment of Graduate students at the Registrar's office.
Jan. 29 *to* Feb. 4.	*Tuesday to Monday inclusive.* Mid-year examinations for admission to the Freshman class.
February 15.	*Friday.* Last day for applications of competitors for the Peace Society Prizes.
March 1.	*Friday.* Last day for applications of competitors for the Bishop McVickar Prizes. Last day for applications of competitors for the Society of Colonial Dames Prize.
March 27.	*Wednesday.* Peace Society Prize Speaking Competition.
March 29–31.	*Friday to Sunday inclusive.* Spring Recess.
April 1.	*Monday.* Last day for receiving applications for

examination for the degree of Doctor of Philosophy.

April 1. *Monday,* 8 a.m. Recitations begin.
Last day for receiving essays submitted in competition for the Gaston Prize Medal.
Last day for receiving applications for the Grand Army of the Republic Fellowship.

April 4. *Thursday.* Carpenter Prize Speaking Competition.

April 8. *Monday.* Last day for receiving essays submitted in competition for the Bennett Prize.

April 10. *Wednesday.* Meeting of the Board of Fellows.

April 16. *Tuesday.* Last day for receiving theses of candidates for the degree of Doctor of Philosophy.

April 17. *Wednesday.* Examination in Greek for the Foster Premium.

April 20. *Saturday.* Last day for receiving essays submitted in competition for the Bishop McVickar Prizes.

April 23. *Tuesday.* Hicks Prize Debate.

April 27. *Saturday.* Last day for receiving essays submitted in competition for the Society of Colonial Dames Prize.

April 30. *Tuesday.* Gaston Prize Medal Competition.

May 1. *Wednesday.* Examination in Latin for the Lucius Lyon Premiums.

May 15. *Wednesday.* Last day for receiving essays submitted in competition for the Menorah Prizes.

May 17. *Friday.* Last day for examinations for the degree of Doctor of Philosophy.
Last day for receiving essays submitted in competition for the Class of 1873 Prize.

May 18–24. *Saturday to Friday inclusive.* Semester examinations.

May 26.	*Sunday.* Baccalaureate Sermon, First Baptist Meeting House, 4.30 p.m.
May 27.	*Monday.* Class Day.
May 28.	*Tuesday.* Annual Meeting of the Phi Beta Kappa Society, Administration Building, 9.30 a.m. Meeting of the Board of Fellows. Ivy Day, Pembroke Hall. Annual Meeting of the Associated Alumni.
May 29.	*Wednesday.* One Hundred and Fiftieth Annual Commencement, First Baptist Meeting House, 10 a.m.
May 30.	*Thursday.* Meeting of the Corporation.
May 30 *to* Sept. 24.	Summer Vacation.
September 4.	*Wednesday.* Annual meeting of the Corporation (first Wednesday in September).
September 17–23.	*Tuesday to Monday inclusive.* Examinations for admission to the Freshman class and to advanced standing.
September 23, 24.	*Monday and Tuesday.* Registration of new students and enrolment of students previously in residence.
September 25.	*Wednesday,* 9 a.m. Academic Year begins (fourth Wednesday in September).

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THOMAS DAVIS ANDERSON, D.D., Secretary
CORNELIUS SOWLE SWEETLAND, A.M., Treasurer

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† *Deceased.*

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ROBERT PERKINS BROWN, A.M.	*Providence*
JOHN DAVIS SAGE, A.B.	*Cincinnati, Ohio*

† *Deceased.*

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Messrs. Sharpe and Green.

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THE EXECUTIVE OFFICERS

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Assistant Professor of Electrical Engineering

JOHN FRANCIS GREENE, A.M. — 48 College Street
Associate Professor of Roman Literature and History

† On leave of absence during the first semester, 1917–18.

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Professor of Biblical Literature and History

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Professor of European History

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Assistant Professor of Civil Engineering

† On leave of absence during the first semester, 1917–18.
‡ On leave of absence during the academic year 1917–18.

HARLAN HARVEY YORK, PH.D. — 256 Doyle Avenue
Assistant Professor of Botany

WILLIAM THOMSON HASTINGS, A.M. — Brown University
Assistant Professor of English

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Professor of Military Science and Tactics — Brown University

SAMUEL TOMLINSON ARNOLD, PH.D. — 26 Caswell Hall
Assistant Professor of Chemistry

WALTER CLARKE PHILLIPS, A.M. — 427 Maxcy Hall
Instructor in English

JOHN SHAPLEY, PH.D. — 9 Charles Field Street
Instructor in Art

THEODORE HENRY BROWN, PH.D. — 79 Taber Avenue
Instructor in Mathematics

HAROLD STEPHEN BUCKLIN, A.B. — 76 Olive Street, Pawtucket
Instructor in Social Science

EDOUARD R. MASSEY, B. ÈS LETTRES — 146 Governor Street
Instructor in French

ALVIN HARVEY HANSEN, A.M. — 654 Hope Street
Instructor in Economics

ARTHUR FRANCIS BUDDINGTON, PH.D. — 120 Waterman Street
Instructor in Geology

NELSON LEWIS GREENE, A.M. — 59 Charles Field Street
Instructor in Romance Languages

MYRON WHITMARSH FINCH, B.S. — 195 Morris Avenue
Instructor in Physical Training

JOSEPH OTIS FULLER, SC.B. — 283 Brook Street
Instructor in Mechanical Engineering

INSTRUCTORS IN THE WOMEN'S COLLEGE

HELEN BARNES WHITING, A.B. — 118 Cushing Street
Instructor in Biology in the Women's College

M. ELIZABETH BATES — 118 Cushing Street
Instructor in Hygiene and Physical Education in the Women's College

OTHER OFFICERS OF INSTRUCTION AND ADMINISTRATION

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Lecturer in Music

MARION EMMETT BRATCHER, PH.D. — 38 Benevolent Street
Lecturer in Biblical Literature and History

MARTIN JOSEPH SHUGRUE, A.B. — Cambridge, Mass.
Lecturer in Economics

RICHARD MONTGOMERY FIELD, SC.B., A.M. — 16 Alveston Street
Lecturer in Geology

ROY FOLLETT — 42 Hazard Avenue
Lecturer in English in the Women's College

JOHN BURNHAM FERGUSON, A.B., M.D. — 369 Broad Street
Demonstrator in Anatomy

JAMES FRANKLIN COLLINS, PH.B. — 468 Hope Street
Demonstrator in Botany

ASSISTANTS

EARL FRANKLIN WOOD, A.B. — 44 University Hall
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HENRY FRANKLIN BAIN, A.B., SC.M. — 42 Angell Street
Assistant in Botany

ARTHUR EARL BARNARD, Sc.M., A.M. 71 Verndale Avenue
Assistant in Chemistry

HENRY WEEDEN UNDERWOOD, Jr., Ph.B., Sc.M. Rogers Hall
Assistant in Chemistry

KENNETH OLIVER MASON, A.M. 50 Maynard Street, Pawtucket
Assistant in English

JAMES RUSSELL ESTY, Sc.M. 245 Canal Street
Assistant in Military Training

ROSS HADLEY 568 Power Road, Pawtucket
Assistant in Pattern Making

HARVEY FISH Seekonk, Mass.
Assistant in Metal Working

ROSS ELMER BROWNING 88 Massachusetts Avenue
Assistant in the Gymnasium

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Comptroller and Superintendent of Grounds and Buildings

THOMAS BAIRD APPLEGET, Ph.B. 175 Thayer Street
Executive Secretary

EMMA BRADFORD STANTON, A.M. 706 Hope Street, Bristol
Registrar of the Women's College

SUSAN EMMA HILL 238 Gano Street
Assistant Registrar

JOHN HENRY ASHTON 46 Pitman Street
Assistant Superintendent of Grounds and Buildings

Library Staff

PHEBE PARKER, A.B. 5 Congdon Street
Cataloguer

EDITH RICHMOND BLANCHARD, A.M. 591 Angell Street
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MARY WIDMAN BRONSON, Ph.B. 11 Benefit Street
Serial Clerk

ALICE INEZ McMEEHAN, A.B. 14 Pearl Avenue, Rumford
Assistant Cataloguer

ELIZABETH DE WELDEN ROOT, A.B. 64 Keene Street
Loan Desk Assistant

SARAH ANN IDE, A.B. 2585 Pawtucket Avenue, E. Providence
Order Clerk

GERTRUDE ELIZABETH ROBSON, Sc.B. — 441 Angell Street
Assistant Librarian of the John Carter Brown Library

ELEANOR STUART UPTON, A.M. — 156 Cypress Street
Cataloguer in the John Carter Brown Library

GENE WILDER WARE, A.B. — 72 Charles Field Street
Organist and Director of Chapel Music

RAYMOND GILBERT BUGBEE, M.D. — 223 Thayer Street
Physician to the University

LOUISE PROSSER BATES, A.M. — Oak Lawn
Keeper of Graduate Records

STANDING COMMITTEES OF THE FACULTY

ON REGISTRATION AND ATTENDANCE
Dean Randall, Professors Delabarre, Hill, Fowler, Huntington, Hunkins, and Smith, Dean King, Mr. Guild.

ON THE CURRICULUM
Professors Mead, Harkness, Gardner, Randall, Everett, Colvin, and Richardson.

ON STUDENT ORGANIZATIONS
Professors Delabarre, Langdon, Hill, Potter, Marvel, and Benedict.

ON STUDENT ADVISERS
Professors Greene, Crosby, Brown, and P. H. Mitchell.

ON SCHEDULES
Mr. Guild, Professors Allinson, Hill, Gorham, and Fowler.

ON EXTENSION TEACHING
Professors Jacobs, Dealey, Kenerson, Walter, Collier, and Jones.

OFFICE HOURS

THE PRESIDENT. 11 Administration Building (*for students*, 9 Administration Building): *12 m. to 1 p.m., except Saturdays.*

THE DEAN OF THE UNIVERSITY. 7 Administration Building: *1.30 to 2.30 p.m., except Saturdays.*

THE REGISTRAR, AND SECRETARY OF THE FACULTY. 1 Administration Building: *11.30 a.m. to 12.30 p.m., 3.15 to 4 p.m.; Saturdays 11.30 a.m. to 1 p.m.*

THE ASSISTANT REGISTRAR. 4 Administration Building: *8.30 a.m. to 12 m., 1.30 to 4 p.m.; Saturdays 8.30 a.m. to 1 p.m.*

THE COMPTROLLER. 3 University Hall: *9 to 10 a.m. daily; 2 to 2.50 p.m., except Saturdays.*

THE DEAN OF THE GRADUATE DEPARTMENT. 5 Wilson Hall: *12.20 to 1.20 p.m., and 3.20 to 4.20 p.m.*

THE LIBRARIAN OF THE UNIVERSITY. The John Hay Library: *9 to 10 a.m., 3 to 4 p.m.; Saturdays 9 to 10 a.m.*

THE LIBRARIAN OF THE JOHN CARTER BROWN LIBRARY. The John Carter Brown Library: *9 a.m. to 5 p.m.*

THE DIRECTOR OF UNIVERSITY EXTENSION AND SECRETARY OF THE TEACHERS' BUREAU. The John Hay Library: *11.30 a.m. to 12 m. Mondays, Wednesdays, Fridays; 5 p.m. Fridays; 12.30 p.m. Saturdays.*

THE SUPERINTENDENT OF GROUNDS AND BUILDINGS. 1 University Hall: *9 to 10 a.m. daily; 2 to 2.30 p.m., except Saturdays.*

THE DEAN OF THE WOMEN'S COLLEGE. Pembroke Hall: *10.15 to 11.15 a.m. Tuesdays and Thursdays; 11.15 a.m. to 12.15 p.m. Mondays and Fridays.*

THE REGISTRAR OF THE WOMEN'S COLLEGE. Pembroke Hall: *9.15 a.m. to 1.15 p.m., 2.30 to 5 p.m.; Saturdays 9.15 a.m. to 1 p.m.*

THE UNIVERSITY PHYSICIAN. R. G. Bugbee, M.D. 223 Thayer Street: *2 to 4 p.m., 7 to 8 p.m. Telephone Angell 2660-W.*

THE ABSENCE COMMITTEE. H. B. Huntington, Secretary. 5 Administration Building: *1.30 to 2.15 p.m., except Wednesdays and Saturdays. During the first semester 1 to 2 p.m.*

THE SUPERVISOR OF ATHLETIC ORGANIZATIONS. F. W. Marvel. The Gymnasium: *9 to 10 a.m., 2 to 3 p.m.*

THE SUPERVISOR OF NON-ATHLETIC ORGANIZATIONS. J. C. Dunning. The John Hay Library: *11.30 a.m. to 12 m. daily, except Saturdays.*

THE PUBLICITY COMMITTEE. 9 Administration Building: *10 a.m. to 12 m.*

THE KEEPER OF GRADUATE RECORDS. Mrs. Louise Prosser Bates. The John Hay Library.

THE EXECUTIVE SECRETARY. T. B. Appleget, 9 Administration Building: *10 a.m. to 12 m.*

COMMITTEE ON MILITARY INSTRUCTION. Sayles Basement, Room D: *1.30 to 2.30 p.m., except Wednesdays and Saturdays.*

HISTORY OF BROWN UNIVERSITY

BROWN UNIVERSITY, first called Rhode Island College, was founded in 1764. The project originated among the leaders in the Philadelphia Baptist Association, who chose the colony of Rhode Island as the most suitable place, and in 1763 sent James Manning, a recent graduate of New Jersey College, to confer with the Baptists in Newport. Conditions in the colony were ripe for the establishment of an institution of learning on broad lines. The spirit of religious liberty still prevailed in the commonwealth founded by Roger Williams; commerce on land and sea was a growing source of wealth; and a considerable degree of culture existed, especially in Newport, then a thriving seaport and the home of many men of wide intellectual interests. Indeed, some of its leading citizens, including Ezra Stiles, later president of Yale College, had been considering plans for a college a year or two before Manning's visit, and the proposal of the Philadelphia Baptists won quick and hearty support. A charter, drawn up by Mr. Stiles and William Ellery (a signer of the Declaration of Independence), and amended by the Baptists, was granted by the legislature in 1764. It provided that twenty-two of the thirty-six trustees should be Baptists, five Quakers, four Congregationalists, and five Episcopalians; that eight of the twelve fellows should be Baptists, and the rest of any denominations; that the president should be a Baptist, but that the other members of the Faculty might be of any Protestant faith. Especially noteworthy are the following provisions: "Into this Liberal & Catholic Institution shall never be admitted any Religious Tests but on the Contrary all the Members hereof shall for ever enjoy full free Absolute and uninterrupted Liberty of Conscience"; and "the Sectarian differences of opinions, shall not make any Part of the Public and Classical Instruction."

The first meeting of the Corporation was held at Newport, in September, 1764, when Governor Stephen Hopkins, a Quaker, was chosen chancellor. A year later James Manning, who had become pastor of the Baptist church in Warren and had opened a Latin school, was appointed "President of the College, Professor of Languages and other Branches of Learning with full Power to act in those Capacities at Warren or elsewhere." The first student had been matriculated the day before; for nearly a year he was the only student. David

Howell, a graduate of New Jersey College, was engaged as tutor in 1766, and in 1769 was made professor of natural philosophy. At the first Commencement, in 1769, a class of seven graduated. In 1770 the College moved to Providence, a growing town of four thousand inhabitants, which had subscribed about $15,000 for an endowment; some $6000 had also been collected in Great Britain and among the Baptists of the Southern States. A site of eight acres on College Hill was bought for $730; and University Hall, modelled on Nassau Hall at Princeton, and a house for the president were built in 1770–71. In 1775 the Baptist church, of which Manning had become pastor, erected a new meeting-house, "for the publick Worship of Almighty GOD; and also for holding Commencement in." From December, 1776, to May, 1782, the college building was used as barracks and hospital by American and French troops, and college exercises were suspended. Twenty-three of the sixty-seven graduates rendered active service on the patriot side during the Revolution. After the war the College began slowly to grow again. The students, who had numbered about forty in 1776, increased to seventy-two by 1789, and in 1790 a class of twenty-two graduated. Most of the instruction was given by the president and two or three tutors; but professorships without stipend were established in natural philosophy, natural history, mathematics and astronomy, and law. The library had two thousand volumes.

President Manning died in 1791. The success of the College during its first quarter-century was due largely to his ability as organizer, teacher, and orator. His discipline was paternal but strict. Students were visited daily in their rooms by the tutors, and most of them boarded in the college commons; all were required to attend chapel twice a day. The course of study, like the regimen, was based upon that at the College of New Jersey. The requirements for admission were a knowledge of Cicero, Virgil, the Greek Testament, and arithmetic, and ability to write "true Latin." In college the chief studies were Latin, Greek, mathematics, logic, philosophy, history, and oratory; most of these were not carried far, but the instruction in oratory was prolonged and thorough. Of the 165 graduates under Manning, 43 became ministers (26 Congregationalists, 12 Baptists), 29 lawyers, 19 physicians, and 48 entered public life.

Jonathan Maxcy, of the class of 1787, was the second president, and served until 1802, when he resigned to become president of Union College. He was a brilliant teacher and orator, but did not excel as

an administrator. There was little growth in the endowment under him, and no essential change in the course of study. The students increased to somewhat over one hundred. Of the 227 graduates, 66 became lawyers, 56 clergymen (34 Congregationalists, 11 Baptists), 36 teachers or professors, 17 judges, and 13 Congressmen. The most distinguished name is that of Henry Wheaton, of the class of 1802, minister to Prussia and authority on international law.

Asa Messer, of the class of 1790, who had been a member of the Faculty for eleven years, succeeded to the presidency. The name of the institution was changed to Brown University in 1804, in recognition of Nicholas Brown's gift of $5000 to endow a chair of oratory and belles-lettres. A Medical School was established in 1811: local physicians gave short courses of lectures, which the candidates for a medical degree were required to attend for two years, besides studying three years with a reputable practitioner. The school lasted until 1828, and graduated eighty-seven men, several of whom attained eminence in their profession. By 1822 the students in the academic course had increased to one hundred and fifty-two; an additional dormitory was needed, and Hope College, named for Mr. Brown's sister, was therefore built by him in 1823. In 1825 the graduating class numbered forty-eight. Tuition, which had been $12 under Manning and $16 under Maxcy, was raised to $20 in 1822; but the productive funds were only $15,578 in 1824. The Faculty in 1825 consisted of the president, nine professors (four of whom were merely lecturers in the Medical School), and two tutors. The college library contained about five thousand volumes in 1826, when a catalogue was published; and the libraries of the Philermenian Society and the United Brothers, two student debating societies, comprised nearly three thousand more. The institution was still emphatically a poor man's college. The long vacation was placed in the winter, that students might teach school, and in the catalogue of 1825–26 is the statement, "Tuition, Library, Room Rent, and Board, less than $100 per annum." The graduates in the regular course under President Messer numbered six hundred and ninety-three, nearly twice as many as under Manning and Maxcy. The most notable names among many distinguished in professional and public life are Horace Mann, who remodelled public-school education in America, Adoniram Judson, missionary to Burma, Samuel G. Howe, the teacher of Laura Bridgman, and William L. Marcy, Secretary of State.

President Messer's later years were disturbed by serious disorders

among the students and by opposition to his theological views, and he resigned in 1826. His successor was Francis Wayland, a graduate of Union College, where he taught for several years, and a prominent Baptist clergyman. His powerful personality soon raised the University to a higher level. He tightened the reins of government, and quickened the intellectual life. The Medical School was discontinued, in order that all the resources might be concentrated upon the academic course. Entrance requirements were somewhat raised. The curriculum was much enriched, especially in the classics, mathematics, and natural sciences, and political economy was added. In several departments lectures supplemented the text-book. Prizes for excellence in examinations and for essays were established. A fund of $25,000 for the library was secured. The general endowment in 1841 was only $32,300; but tuition, which was now $36, brought in a considerable income. Manning Hall was built by Mr. Brown in 1835 as a chapel and library. Rhode Island Hall was erected in 1840 for the use of the departments of natural science, chiefly with funds subscribed by citizens of the state; and in the same year Mr. Brown built a new house for the president. At his death, in 1841, Mr. Brown left bequests which swelled his total gifts to the University to nearly $160,000. A chapter of the Phi Beta Kappa Society was established in 1830, and the first Greek-letter fraternity for undergraduates in 1836. An Alumni Association was organized in 1842. *The Brunonian,* an undergraduate magazine,was published during 1829–31.

President Wayland's study of English universities, in 1840, had made him dissatisfied with American collegiate methods; the steady decline in numbers for several years (from 196 in 1836 to 152 in 1849) confirmed his belief that something was radically wrong; and in 1850 he launched his so-called New System, which had been in part anticipated at Harvard University and the University of Virginia. The plan comprised three main features: 1. An elective system, by which "every student might study what he chose, all that he chose, and nothing but what he chose"; 2. The development of courses in applied science, as an aid to agriculture and manufactures; 3. A new system of degrees, the degree of Master of Arts to be granted after four years of study, that of Bachelor of Arts after three years, and a new degree, Bachelor of Philosophy, to be given at the completion of a three-year course in scientific and English studies, with very low requirements for admission. A fund of $125,000 was raised to put the New System into effect. The results were disap-

pointing. Only a narrow range of electives was possible, for the total number of courses was still small; the courses in applied science were limited to chemistry and civil engineering, and even for these there was not much demand; and the new system of degrees did not bring great increase in the number of students, while the quality was poorer. Yet the New System, in its best features, showed remarkable prevision of the direction that university education was soon to take.

President Wayland resigned in 1855, because of failing health. His successor was Barnas Sears, of the class of 1825, a very scholarly man, who had been president of Newton Theological Institution and secretary of the Massachusetts Board of Education. He restored the degrees of Master of Arts and Bachelor of Arts to their former footing, but retained the course for the degree of Bachelor of Philosophy and the courses in applied science. In spite of the Civil War the endowment increased from $203,000 to $327,000, and thirty-six scholarships of $1000 each were founded; in 1863 the Chemical Laboratory was built. Tuition was raised to $50 in 1864. Class Day was instituted in 1856; football, baseball, and boating developed; and at the outbreak of the Civil War a military company was formed. Of two hundred and seventy-eight men graduating during the war, one hundred and thirty-two enlisted in the army. Notable names among the graduates during this administration are those of two Secretaries of State, Richard Olney and John Hay. President Sears resigned in 1867, to become agent of the Peabody Fund for education in the South.

Alexis Caswell, of the class of 1822, who had resigned his professorship in 1864, was recalled as president in 1868, Professor George Ide Chace having served as president *ad interim* since the retirement of President Sears. During President Caswell's short term of office the productive funds were increased to $602,000, and the chairs of physics and chemistry were endowed. In spite of an advance in tuition to $75, the number of students somewhat increased, and the athletic and social side of undergraduate life received more and more emphasis. The Alumni Association was resuscitated in 1868, and local associations were formed in New York, Philadelphia, and Boston during the next two years. In 1870 the time of Commencement, which had always been in September except for two years under President Wayland, was changed to June.

President Caswell retired in 1872, and was succeeded by Ezekiel G. Robinson, of the class of 1838, president of Rochester Theologi-

cal Seminary. During his administration the University made great progress. Rhode Island Hall was enlarged in 1874, to accommodate the growing departments of natural science. The library, which had long outgrown its quarters in Manning Hall, was housed in a beautiful new building erected in 1878 with a bequest of John Carter Brown. Slater Hall, a dormitory, was built in 1879 by Horatio N. Slater. Sayles Hall, given by William F. Sayles in memory of his son, and containing class-rooms and a large auditorium, was completed in 1881. In 1883 University Hall was renovated. A physics laboratory, named Wilson Hall in honor of George F. Wilson, who left a bequest for it, was begun in 1889. Funds for the Lyman Gymnasium were given by Daniel W. Lyman in 1887, and for the Ladd Observatory by Herbert W. Ladd in 1889. The chair of natural history and botany was endowed by a bequest of Stephen T. Olney in 1878, and in 1884 the Metcalf Botanical Garden was given to the University by the widow of Whiting Metcalf. The productive funds were increased to $1,000,000. The requirements for admission were made more severe; and the curriculum was much enlarged, especially in modern languages and natural science. In 1876 the course for the degree of Bachelor of Philosophy was lengthened to four years. The most radical change was a liberal though guarded extension of the elective system in 1885. Graduate study was thereby encouraged; the degree of Master of Arts was granted upon examination in 1888, that of Doctor of Philosophy in the following year. The number of undergraduates, however, remained nearly the same, seldom rising above two hundred and fifty.

Elisha Benjamin Andrews, of the class of 1870, who had been president of Denison University and professor in Newton Theological Institution, Brown University, and Cornell University, succeeded President Robinson in 1889. During his administration the University grew at a remarkable rate. The students increased to about nine hundred, of whom more than one hundred were candidates for advanced degrees. Several new departments were added, and the Faculty more than trebled. The courses in engineering received greater emphasis, and the degrees of Civil Engineer, Mechanical Engineer, and Bachelor of Science were established. In 1891 the Corporation voted to admit women to the college examinations; in 1892 women were recognized as candidates for degrees, and women graduate students were admitted to the University classes. In 1897 the Corporation created "a department of the University to be known as the Women's Col-

lege in Brown University"; and in the same year the Rhode Island Society for the Collegiate Education of Women built Pembroke Hall and gave it to the University as a recitation hall for the Women's College, where women undergraduates might receive instruction in separate classes taught by members of the University Faculty, although taking the University examinations and receiving their degrees from the University. Wilson Hall, Ladd Observatory, and Lyman Gymnasium were completed in 1891, and Hope College was renovated. Maxcy Hall, a dormitory with a few class-rooms, was built in 1895. A new athletic field, named in honor of President Andrews, was laid out in 1898–99. In 1898 the productive funds were $1,125,685; the estimated value of the grounds and buildings was $1,177,966. In this year President Andrews resigned, to become superintendent of the Chicago public schools.

William Herbert Perry Faunce, of the class of 1880, was elected president in 1899, Professor Benjamin F. Clarke having served as president *ad interim* for the preceding academic year. The material resources of the University have been greatly enlarged during the present administration. The general endowment has increased to $4,446,243. Salaries have been raised, and a pension system similar to that of the Carnegie Foundation went into effect in 1913. Many new buildings have been erected: a house for the president, in 1901; an Administration Building, the gift of Augustus Van Wickle, in 1902; an Engineering Building, in 1903; Caswell Hall, a dormitory, in 1904; Rockefeller Hall, named for the donor, John D. Rockefeller, and occupied by the Christian Association and the Brown Union, in 1904; the John Carter Brown Library, given by the trustees of the estate of John Nicholas Brown, in 1904; the Carrie Tower, built by Paul Bajnotti in memory of his wife, Carrie Mathilde Brown Bajnotti, in 1904; a marble swimming pool, given by Colgate Hoyt in 1904; a field house on Andrews Field, erected by Edgar L. Marston, in 1907; and the John Hay Library, the gift of Andrew Carnegie and others, in 1910. The Arnold Biological Laboratory, named for the donor, Dr. Oliver H. Arnold, was completed in 1915. In 1903 a great organ, presented by Lucian Sharpe, was set up in Sayles Hall. Bronze statues of Caesar Augustus and Marcus Aurelius, the gifts of Moses B. I. Goddard, were placed on the campus in 1906 and 1908. An iron fence around the grounds was completed in 1905; and gates have been erected at various times—the Van Wickle Gates, in 1901; the John Nicholas Brown Gate, given by Mrs. Brown, in 1904; the God-

dard Gates, in memory of Chancellor William Goddard, the gift of his daughter, Mrs. C. Oliver Iselin, in 1910; and the gates at minor entrances, presented by the classes of 1872, 1884, and 1887. The Slater Memorial Homestead was given to the Women's College by Mrs. Horatio N. Slater, for a dormitory, in 1900. Sayles Gymnasium, for the women students, was built by Frank A. Sayles in 1906, in memory of his sister. Miller Hall, a women's dormitory named for Dr. and Mrs. Horace G. Miller, was erected in 1910.

The Faculty has increased to more than a hundred members, and the number of students to over eleven hundred. Entrance requirements for the engineering degrees and the degree of Bachelor of Philosophy have been raised, and those for the degree of Bachelor of Arts have been broadened. The curriculum has been widened and deepened, while the elective system has been guarded against abuse by regulations securing a certain breadth of study. Graduate study has been fostered by the development of laboratories and seminaries. The work of the Faculty has been better organized by the appointment of deans and by reorganization of the committee system. Undergraduate life is more carefully supervised, partly through agencies that give training in self-government. The University has been brought into closer relations with the community, the alumni, and other educational institutions, by the establishment of the Brown University Teachers' Association and the School of Education, the appointment of visiting committees, the formation of new alumni associations, and the giving of more power to the alumni in the choice of trustees.

The general effect of the policy of the last three administrations has been to make the institution a "university college," as it has been called, combining many of the advantages of the small college and the large university.

At the close of the one hundred and forty-ninth Commencement of the University, in 1917, there were enrolled the names of 8355 graduates—7488 men and 867 women. Of this number, 7374 had received the academic first degree; 218, exclusive of the foregoing, had received advanced degrees; 69, not previously reckoned, had received the degree of Doctor of Medicine; 694 others had received honorary degrees. Of the entire number, 4965, or 59.42 per cent., were living.

ADMISSION TO THE UNIVERSITY

METHODS OF ADMISSION TO THE FRESHMAN CLASS

ENTRANCE EXAMINATIONS CONDUCTED BY THE UNIVERSITY. Examinations for admission to the Freshman class are given by the University in September and at mid-year. Candidates desiring to be examined in June must take the examinations conducted by the College Entrance Examination Board; see page 31. A candidate may, at his option, take all his examinations in June or in September, or he may take part in June and part in September.

Before taking any examination conducted by the University, a candidate must make written application to the Registrar, on a blank provided for the purpose, and secure a card admitting him to the examination. This may be done by correspondence, provided that the application is received not less than one week before the date of the first examination. A letter of recommendation from the principal of the preparatory school must be filed with the application.

Any of these examinations may be taken one year before the candidate expects to enter college.

No credit beyond admission is given for certificates from preparatory schools or the New York Board of Regents, or for entrance examinations conducted by the College Entrance Examination Board or the University.

If a candidate offers subjects in excess of those required for admission and desires to obtain credit for them as college subjects, he may apply to the Committee on Registration and Attendance for information regarding special examinations for advanced standing. Such examinations are not given in all preparatory subjects.

Examinations for advanced standing should be taken during the regular examination period in September. No student will be allowed to take such examinations after the beginning of the second year.

The mid-year examinations will be held in Rhode Island Hall, Room 1; the September examinations will be held in Sayles Hall.

The order of the examinations in 1917–18 will be as follows:

TUESDAY, JANUARY 29, 1918, and SEPTEMBER 17, 1918

Elementary Algebra 1, 8 a.m. to 10 a.m.; *Elementary Algebra* 2, 8 a.m. to 10 a.m.; *Plane Geometry*, 10 a.m. to 12 m.; *Two-year Latin*, 1 p.m. to 3 p.m.; *Elementary Latin*, 1 p.m. to 3 p.m.; *Advanced Latin*, 3.30 p.m. to 5 p.m.

WEDNESDAY, JANUARY 30, 1918, and SEPTEMBER 18, 1918

English 1, 8 a.m. to 10 a.m.; *English* 2, 10 a.m. to 12 m.; *Chemistry*, 1 p.m. to 3 p.m.; *Ancient History*, 3.30 p.m. to 5.30 p.m.

THURSDAY, JANUARY 31, 1918, and SEPTEMBER 19, 1918

Elementary German (*First year*), 8 a.m. to 10 a.m.; *Elementary German* (*Second year*), 10 a.m. to 12 m.; *Intermediate German*, 1 p.m. to 3 p.m.; *American History*, 3.15 p.m. to 5.15 p.m.; *Physiography*, 5.30 p.m. to 7.30 p.m.

FRIDAY, FEBRUARY 1, 1918, and SEPTEMBER 20, 1918

Elementary French (*First year*), 8 a.m. to 10 a.m.; *Elementary French* (*Second year*), 10 a.m. to 12 m.; *Intermediate French*, 1 p.m. to 3 p.m.; *Astronomy*, 3.15 p.m. to 5.15 p.m.; *Elementary Italian* (*First year*), 3.15 p.m. to 5.15 p.m.; *English History*, 5.30 p.m. to 7.30 p.m.

SATURDAY, FEBRUARY 2, 1918, and SEPTEMBER 21, 1918

Plane Trigonometry, 8 a.m. to 10 a.m,; *Solid Geometry*, 10 a.m. to 12 m.; *Advanced Algebra*, 1 p.m. to 3 p.m.; *Elementary Italian* (*Second year*), 3.15 p.m. to 5.15 p.m.; *Physics*, 3.15 p.m. to 5.15 p.m.; *Botany*, 5.30 p.m. to 7.30 p.m.; *Intermediate Italian*, 5.30 p.m. to 7.30 p.m.

MONDAY, FEBRUARY 4, 1918, and SEPTEMBER 23, 1918

Elementary Greek, 8 a.m. to 10 a.m.; *Elementary Spanish* (*First year*), 8 a.m. to 10 a.m.; *Advanced Greek*, 10 a.m. to 11.30 a.m.; *Elementary Spanish* (*Second year*), 10 a.m. to 12 m.; *Medieval and Modern History*, 1 p.m. to 3 p.m.; *Intermediate Spanish*, 3.30 p.m. to 5.30 p.m.

ENTRANCE EXAMINATIONS CONDUCTED BY THE COLLEGE ENTRANCE EXAMINATION BOARD. Examinations conducted by the College Entrance Examination Board are accepted in place of the corresponding examinations conducted by Brown University, provided they are passed with a grade of at least 60 per cent. In 1918 these examinations will be held June 17–22.

All applications for these examinations must be addressed to the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board. Applications for examination at points in the United States east of the Mississippi River, or on the Mississippi River, must be received by the Secretary on or before May 27, 1918; applications for examination elsewhere in the United States or in Canada must be received on or before May 20, 1918; and applications for examinations at points outside the United States and Canada must be received on or before Monday, May 6, 1918. When the candidate has failed to obtain the required blank form of application, the usual examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination centre at which he wishes to present himself, and a list of all the subjects in which he desires to take the examinations.

The examination fee is $5 for candidates examined in the United States and Canada, and $15 for candidates examined outside of the United States and

Canada. The fee, which must be sent with the application, should be remitted by postal order, express order, or draft on New York, to the order of the College Entrance Examination Board.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidates concerned, but only upon the payment of $5 in addition to the regular fee.

A list of the places at which examinations are to be held by the Board in June, 1918, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

ADMISSION BY CERTIFICATE. In place of examinations, certificates are accepted from any school which has the privilege of issuing certificates to Brown University. Certificates are accepted for admission to the Freshman class only, not for admission to advanced standing.

Principals of schools in New England who desire the certificate privilege for Brown University, or for any other college which is a member of the New England College Entrance Certificate Board, should address the Secretary of the Board, Professor Frank W. Nicolson, Wesleyan University, Middletown, Conn., who will furnish the necessary application blanks. These blanks must be returned to him before April 1 of the year for which the certificate privilege is desired.

Principals of schools situated outside of New England who desire the certificate privilege must make application to the Registrar of the University before May 1, if possible, and must furnish full and detailed information regarding the courses of study, teachers, pupils, library, laboratories, apparatus, etc. Blank forms for this purpose will be supplied on request. If this statement is satisfactory, the school will be placed on the accredited list for a period of from one to three years. At the expiration of this period, or whenever the principal of the school is changed or a change in policy is instituted, a new application for the certificate privilege must be made.

Certificates from the New York Board of Regents are accepted for the specified subjects so far as they coincide with the entrance requirements of Brown University.

Blank forms for the certification of candidates may be obtained from the Registrar by the principals of schools having the privilege of certification. These forms should be filled out and returned to him by July 1 for students intending to enter in September, or before January 15 for students intending to enter at mid-year. When a student has attended more than one school, a letter of recommendation from the principal of the school last attended must accompany the certificate.

ADMISSION AT MID-YEAR

On account of the increasing number of applications from the mid-winter graduates of high schools and academies, arrangements have been made whereby applicants for admission to the courses leading to the degrees of Bachelor of Arts and Bachelor of Philosophy will be admitted at the beginning of the second semester (for 1918 the date will be February 5). For detailed statements regarding requirements for admission, entrance examinations, registration and enrolment, and payment of bills, see pages 30–52, 54, 173. Such necessary readjustments have been made in the present curriculum, chiefly in the departments of English and Mathematics, as will enable students to arrange a satisfactory schedule of subjects.

ENTRANCE REQUIREMENTS

ENTRANCE UNITS. A unit in any subject represents a year's study, constituting approximately a quarter of a full year's work in a secondary school.

This statement is designed to afford a standard of measurement for the work done in secondary schools. It takes the four-year high school course as a basis, and assumes that the length of the school year is from thirty-six to forty weeks, that a period is from forty to sixty minutes in length, and that the study is pursued for four or five periods a week; but under ordinary circumstances, a satisfactory year's work in any subject cannot be accomplished in less than one hundred and twenty sixty-minute periods or their equivalent. Schools organized on any other than a four-year basis can, nevertheless, estimate their work in terms of this unit.

SUBJECTS REGULARLY ACCEPTED FOR ADMISSION

	Units		*Units*
English 1 (Grammar and Composition)	1½	Intermediate German	1
English 2 (Literature)	1½	Elementary Spanish (First year)	1
Ancient History	1	Elementary Spanish (Second year)	1
Medieval and Modern European History	1	Intermediate Spanish	1
English History	1	Elementary Italian (First year)	1
American History and Civil Government	1	Elementary Italian (Second year)	1
Two-year Latin	2	Intermediate Italian	1
Elementary Latin	3	Elementary Algebra 1	1
Advanced Latin	1	Elementary Algebra 2	½
Elementary Greek	2	Advanced Algebra	½
Advanced Greek	1	Plane Geometry	1
Elementary French (First year)	1	Solid Geometry	½
Elementary French (Second year)	1	Plane Trigonometry	½
Intermediate French	1	Physics	1
Elementary German (First year)	1	Chemistry	1
Elementary German (Second year)	1	Botany	1
		Physiography	1
		Astronomy (for Sc.B. only)	1

UNLISTED SUBJECTS. With the approval of the Committee on Registration and Attendance, subjects not on the regular list, but included in the curriculum of an approved school, may be presented by certificate; provided: (1) that the candidate is a graduate of the school on a four-year course; (2) that the grade for certification is the same as for the listed subjects; (3) that the aggregate value of such subjects does not exceed two units.

ENTRANCE REQUIREMENTS FOR THE VARIOUS DEGREES

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS. Candidates must present fourteen and one-half units as follows: three in English; one and one-half in Algebra; one in Plane Geometry; one in Ancient History;‡ five in languages other than English (including the elementary and advanced requirement in either Latin or Greek); and three in elective subjects.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF PHILOSOPHY. Candidates must present fourteen and one-half units as follows: three in English; one and one-half in Algebra; one in Plane Geometry; one in History; three in languages other than English (including one in either French or German); and five in elective subjects.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE.§ Candidates must present fourteen units as follows: three in English; one and one-half in Algebra; one in Plane Geometry; one-half in Solid Geometry; one in History; four from the following subjects: Chemistry, Physics, Languages other than English; and three in elective subjects.

ENTRANCE REQUIREMENTS IN THE SEVERAL SUBJECTS‖

ENGLISH. *Three units.* Preparation in English has two main objects, of equal importance: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

Grammar and Composition. The first object requires instruction in grammar

‡ A candidate for the degree of Bachelor of Arts may present Medieval and Modern History, English History, or American History, in place of Ancient History; but if he does, he must take the course in Classical Civilization in the Freshman or Sophomore year.

§ The degree of Bachelor of Science is given only for engineering courses. The work is mainly technical, but offers some freedom of election.

‖ The following statements are condensations of those in the Report of the College Entrance Examination Board. Teachers are advised to consult this report.

and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in all written work during the whole course. The principles governing punctuation, diction, sentences, paragraphs, and the whole composition should be carefully studied; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument based upon simple outlines. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Special instruction in language and composition should be accompanied by concerted effort of teachers, whatever subjects they teach, to cultivate in the student the habit of using good English in all recitations and exercises, whether oral or written.

Literature. The second object requires the reading and study of certain books chosen from two lists, headed respectively *Reading* and *Study*. The student should be trained in reading aloud, and should be encouraged to commit to memory some of the more notable passages both in verse and in prose. He should learn the most important facts in the lives of the authors whose works he reads, and know their place in literary history. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and the charm of what he reads.

The books chosen from the list for *Study* should be read with special care, greater stress being laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions.

For Students entering in 1918 or 1919

Reading

At least two selections are to be made from each of the following groups, except as otherwise provided under Group I.

Group I. Classics in Translation. The *Old Testament*, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the *Odyssey*, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the *Iliad*, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; the *Aeneid*. The *Odyssey*, the *Iliad*, and the *Aeneid* should be read in English translations of recognized literary excellence.

For any selection from this group a selection from any other group may be substituted.

Group II. Drama. Shakspere: *A Midsummer Night's Dream; The Merchant of Venice; As You Like It; Twelfth Night; The Tempest; Romeo and Juliet;*

King John; Richard the Second; Richard the Third; Henry the Fifth; Coriolanus; ‡*Julius Caesar;* ‡*Macbeth;* ‡*Hamlet.*

Group III. Prose Fiction. Malory: *Morte d'Arthur* (about 100 pages); Bunyan: *Pilgrim's Progress*, Part I; Swift: *Gulliver's Travels* (voyages to Lilliput and Brobdingnag); Defoe: *Robinson Crusoe*, Part I; Goldsmith: *The Vicar of Wakefield;* Frances Burney: *Evelina;* Scott's Novels, any *one;* Jane Austen's Novels, any *one;* Maria Edgeworth: *Castle Rackrent* or *The Absentee;* Dickens's Novels, any *one;* Thackeray's Novels, any *one;* George Eliot's Novels, any *one;* Mrs. Gaskell: *Cranford;* Kingsley: *Westward Ho!* or *Hereward, the Wake;* Reade: *The Cloister and the Hearth;* Blackmore: *Lorna Doone;* Hughes: *Tom Brown's School Days;* Stevenson: *Treasure Island*, or *Kidnapped*, or *The Master of Ballantrae;* Cooper's Novels, any *one;* Poe: Selected Tales; Hawthorne: *The House of the Seven Gables*, or *Twice Told Tales*, or *Mosses from an Old Manse;* a collection of Short Stories by various standard writers.

Group IV. Essays, Biography, etc. Addison and Steele: *The Sir Roger de Coverley Papers* or selections from *The Tatler* and *The Spectator* (about 200 pages); Boswell: Selections from the *Life of Johnson* (about 200 pages); Franklin: *Autobiography;* Irving: Selections from the *Sketch Book* (about 200 pages), or *Life of Goldsmith;* Southey: *Life of Nelson;* Lamb: Selections from the *Essays of Elia* (about 100 pages); Lockhart: Selections from the *Life of Scott* (about 200 pages); Thackeray: Lectures on Swift, Addison, and Steele, in the *English Humourists;* Macaulay: any *one* of the following essays: *Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederic the Great, Madame d'Arblay;* Trevelyan: Selections from the *Life of Macaulay* (about 200 pages); Ruskin: *Sesame and Lilies* or selections (about 150 pages); Dana: *Two Years before the Mast;* Lincoln: Selections, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, the Letter to Horace Greeley, together with a brief memoir or estimate of Lincoln; Parkman: *The Oregon Trail;* Thoreau: *Walden;* Lowell: Selected Essays (about 150 pages); Holmes: *The Autocrat of the Breakfast Table;* Stevenson: *An Inland Voyage* and *Travels with a Donkey;* Huxley: *Autobiography* and selections from *Lay Sermons*, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; a collection of Essays by Bacon, Lamb, De Quincey, Hazlitt, Emerson, and later writers; a collection of Letters by various standard writers.

Group V. Poetry. Palgrave: *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave: *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen under *Study*); Goldsmith:

‡ If not chosen under *Study*.

The Traveller and *The Deserted Village;* Pope: *The Rape of the Lock;* a collection of English and Scottish Ballads, as, for example, some *Robin Hood* ballads, *The Battle of Otterburn*, *King Estmere*, *Young Beichan*, *Bewick and Grahame*, *Sir Patrick Spens*, and a selection from later ballads; Coleridge: *The Ancient Mariner*, *Christabel*, and *Kubla Khan;* Byron: *Childe Harold*, Canto III or IV, and *The Prisoner of Chillon;* Scott: *The Lady of the Lake* or *Marmion;* Macaulay: *The Lays of Ancient Rome*, *The Battle of Naseby*, *The Armada*, *Ivry;* Tennyson: *The Princess*, or *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur;* Browning: *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *An Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*, *The Italian in England*, *The Patriot*, *The Pied Piper*, "*De Gustibus*"—, *Instans Tyrannus;* Arnold: *Sohrab and Rustum* and *The Forsaken Merman;* selections from American Poetry, with especial attention to Poe, Lowell, Longfellow, and Whittier.

Study

One selection is to be made from each of the following groups.

Group I. Drama. Shakspere: *Julius Caesar; Macbeth; Hamlet.*

Group II. Poetry. Milton: *L'Allegro*, *Il Penseroso*, and either *Comus* or *Lycidas;* Tennyson: *The Coming of Arthur*, *The Holy Grail*, and *The Passing of Arthur;* the selections from Wordsworth, Keats, and Shelley in Book IV of Palgrave's *Golden Treasury* (First Series).

Group III. Oratory. Burke: *Speech on Conciliation with America;* Macaulay: *Speech on Copyright*, and Lincoln: *Speech at Cooper Union;* Washington: *Farewell Address*, and Webster: *First Bunker Hill Oration.*

Group IV. Essays. Carlyle: *Essay on Burns*, with a selection from Burns's Poems; Macaulay: *Life of Johnson;* Emerson: *Essay on Manners.*

Examination. The examination will be divided into two parts, one of which (English 1) will be on grammar and composition, and the other (English 2) on literature.

In grammar and composition, the candidate may be asked to construe sentences, to parse words, and to correct mistakes in usage. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books listed above under *Reading*, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. Several subjects for essays, perhaps eight or ten, will be given, from which the candidate may make his own selections.

The examination in literature will include: (1) General questions designed

to test such a knowledge and appreciation of literature as may be gained by fulfilling the requirements defined under *Reading* above. *The candidate will be required to present to the examiner a list of the books read in preparation for the examination, certified by the principal of the school in which he was prepared;* but this list will not be made the basis of detailed questions. (2) More particular questions upon the content, form, and structure of the books prescribed for *Study*, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, grammar, or other essentials of good usage.

These requirements are the same as those of the College Entrance Examination Board in English.

For Students entering in 1920, 1921, or 1922

Candidates will have the option of taking either of two examinations: (I) a "Comprehensive" examination; (2) a "Restricted" examination, based in part on a prescribed list of books. Each examination will be divided into two parts, one of which will be on grammar and composition, and the other on literature.

Grammar and Composition. In both the Comprehensive and the Restricted examination the test in Grammar and Composition will be of the kind described above, for students entering in 1918 or 1919.

Literature. *Comprehensive Examination.* This examination is intended to test the candidate's ability to understand and appreciate good literature. Selections in prose and verse which the candidate presumably has not read will be set before him, and questions will be asked about their content and form. The candidate will be expected to explain the meaning of passages of some difficulty; to distinguish between different styles and verse forms; and to show a knowledge of the simpler principles of structure in novels and plays. It will therefore be necessary for him to have read with care a considerable amount of literature of the kind indicated in the lists of books for *Reading* given above, to which may be added the following:

Group II. Drama. *Everyman;* Goldsmith: *She Stoops to Conquer;* Sheridan: *The Rivals.*

Group III. Prose Fiction. Reade: *Griffith Gaunt;* Lytton: *The Last Days of Pompeii;* Stevenson: *Dr. Jekyll and Mr. Hyde;* Kipling: *Kim, Captains Courageous, The Jungle Books;* Howells: *The Rise of Silas Lapham, A Boy's Town;*

Wister: *The Virginian;* Cable: *Old Creole Days;* Short Stories by Bret Harte, Aldrich, Page, Hale, Barrie, and other good writers.

Group IV. Essays, Biography, etc. Washington: *Farewell Address;* Burke: *Speech on Conciliation with America;* Macaulay: *Essay on the Life of Johnson; Speech on Copyright, Chapter III of the History of England;* Carlyle: *Essay on Burns;* Webster: *First Bunker Hill Oration;* Emerson: *Manners, Self-Reliance;* Burroughs: Selected Essays; Warner: *In the Wilderness;* Curtis: *Prue and I, The Public Duty of Educated Men;* Hudson: *Idle Days in Patagonia;* Clemens: *Life on the Mississippi;* Riis: *The Making of an American;* Bryce: *The Hindrances to Good Citizenship.*

Group V. Poetry. Milton: *L'Allegro, Il Penseroso, Comus, Lycidas;* Tennyson: *The Coming of Arthur, The Holy Grail;* Arnold: *Balder Dead.*

These suggestions are not intended to be in any sense prescriptive: they indicate by examples the kind of literature that pupils should be taught to appreciate.

Literature. *Restricted Examination.* This examination will be of the kind described above, on pages 37, 38, for students entering in 1918 or 1919. Two selections are to be made from each group under *Reading*, and one selection from each group under *Study. The candidate will be required to present to the examiner a certified list of the books read in preparation for the examination.*

Reading

Group I. Classics in Translation. The same as Group I, on page 35, with the omission of the *Iliad.*

Group II. Drama. Shakspere: *The Merchant of Venice, As You Like It, Julius Caesar.*

Group III. Prose Fiction. Dickens: *A Tale of Two Cities;* George Eliot: *Silas Marner;* Scott: *Quentin Durward;* Hawthorne: *The House of the Seven Gables.*

Group IV. Essays, Biography, etc. Addison and Steele: *The Sir Roger de Coverley Papers;* Irving: *The Sketch Book* (selections, about 175 pages); Parkman: *The Oregon Trail.*

Group V. Poetry. Selections from Tennyson and Browning as in Group V, on pages 36, 37; Scott: *The Lady of the Lake;* Coleridge: *The Ancient Mariner;* Arnold: *Sohrab and Rustum.*

Study

Group I. Drama. Shakspere: *Macbeth, Hamlet.*

Group II. Poetry. Milton: *L'Allegro, Il Penseroso, Comus;* Palgrave: *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley.

GROUP III. ORATORY. Burke: *Speech on Conciliation with America;* Washington: *Farewell Address;* Webster: *First Bunker Hill Oration;* Lincoln: *Gettysburg Address.*

GROUP IV. ESSAYS. Macaulay: *Life of Johnson;* Carlyle: *Essay on Burns,* with a brief selection from Burns's Poems.

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, grammar, or other essentials of good usage.

These requirements are the same as those of the College Entrance Examination Board in English.

MATHEMATICS. ELEMENTARY ALGEBRA 1. *One unit.* The requirement includes the following subjects: the four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and lowest common multiple by factoring; fractions, including complex fractions, and ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative. 2. *One-half unit.* The requirement includes quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations; the binomial theorem for positive integral exponents; the formulae for the *n*th term, and the sum of the terms, of arithmetical and geometric progressions, with applications. To fulfil the entrance requirement in Elementary Algebra both 1 and 2 must be presented.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

This requirement is the same as that of the College Entrance Examination Board in Mathematics *a* (i and ii).

PLANE GEOMETRY. *One unit.* The requirement in Plane Geometry covers the usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle; the solution of numerous original exercises, including loci problems; applications to the mensuration of lines and plane surfaces.

Teachers of Geometry should lay stress on accuracy of statement and elegance of form as well as on clear and strict reasoning. Mere memorizing should be avoided. Special care should be taken that in the proof of a proposition no lines be drawn unless their construction is proved to be possible.

This requirement is the same as that of the College Entrance Examination Board in Mathematics *c*.

Solid Geometry. *One-half unit.* The requirement in Solid Geometry covers the usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurements of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle; the solution of numerous original exercises, including loci problems; applications to the mensuration of surfaces and solids.

This requirement is the same as that of the College Entrance Examination Board in Mathematics *d*.

Plane Trigonometry. *One-half unit.* The requirement in Plane Trigonometry includes definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of principal formulae, in particular for the sine, cosine, and tangent of the sum and difference of two angles, of the double angle and half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulae; the solution of trigonometric equations of a simple character; the theory and use of logarithms (without the introduction of work involving infinite series); the solution of right and oblique triangles; practical applications.

This requirement is the same as that of the College Entrance Examination Board in Mathematics *f*.

Advanced Algebra. *One-half unit.* The requirement in Advanced Algebra includes permutations and combinations, limited to simple cases; complex numbers, with graphical representation of sums and differences; determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations; numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes's rule of signs and Horner's method, but not Sturm's functions or multiple roots.

This requirement is the same as that of the College Entrance Examination Board in Mathematics *b*.

LATIN.‡ Elementary Latin. *Three units.* The reading without the prescription of particular authors and works shall not be less in amount than Caesar, *Gallic War*, Books I-IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias. The reading shall be selected from the following authors and works: Caesar, *Gallic War* and *Civil War*, and Nepos, *Lives;* Cicero, orations, letters, and *De Senectute*, and Sallust, *Catiline* and *Jugurthine War*.

‡ For students presenting by examination the full four-unit requirement in Latin, the examinations of the College Entrance Examination Board in Latin 1, 2, 4, 5 will be accepted.

Candidates will be examined in translation at sight of passages from Caesar and Cicero. The vocabulary, constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above. They will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias.

The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose.

The words, constructions, and range of ideas called for in the examination in composition will be such as are common in the reading of the years covered by the examination.

This requirement is the same as that of the College Entrance Examination Board in Latin 1, 2, 4.

Advanced Latin. *One unit.* The reading shall not be less in amount than Virgil, *Aeneid*, Books I-VI. This reading shall be selected from Virgil, *Bucolics*, *Georgics*, and *Aeneid*, and Ovid, *Metamorphoses*, *Fasti*, and *Tristia.*

Candidates will be examined in translation at sight of passages from Virgil and Ovid. They will be examined also upon the following prescribed reading: Virgil, *Aeneid*, Books I, II, and either IV or VI, at the option of the candidate. The examination will include questions on subject-matter and meter.

This requirement is the same as that of the College Entrance Examination Board in Latin 5, 6.

Two-Year Latin. *Two units.* The reading should not be less in amount than Caesar, *Gallic War*, Books I-IV, and should be selected by the schools from Caesar, *Gallic War* and *Civil War*, and Nepos, *Lives.* Candidates will be examined in translation at sight of passages from the above authors, and in grammar and composition.

The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose.

The words, constructions, and range of ideas called for in the examination in composition will be such as are common in the reading of the years covered by the examination.

This requirement is practically the same as that of the College Entrance Examination Board in Latin 3.

GREEK. Elementary Greek. *Two units.* The requirement in Elementary Greek includes: (1) Xenophon's *Anabasis*, Books I-IV, with attention not only to language, but to subject-matter as well; (2) grammar, including a familiar knowledge of inflection, word-formation, and ordinary syntax. This will be

tested by: (*a*) questions on a passage from the *Anabasis;* (*b*) translation into Greek, with accents, of simple English sentences.

This requirement is the same as that of the College Entrance Examination Board in Greek *a* (i and ii), *b*, and *g*.

Advanced Greek. *One unit.* The requirement in advanced Greek includes: (1) Three books of Homer's *Iliad* or *Odyssey*, with questions on meter, Homeric dialect, etc., or (upon request four weeks in advance of the examination) an equivalent amount of a prose author; (2) translation at sight of simple Attic prose or Homer; (3) translation into Greek, with accents, of a continuous passage of English narrative, based upon material similar to the *Anabasis.*

This requirement is the same as that of the College Entrance Examination Board in Greek *f* and *ch.*

FRENCH. Elementary French. First Year. *One unit.* At the end of the first year the pupil should be able to pronounce French accurately, to translate at sight very easy French prose, to put into French very simple English sentences taken from the language of every-day life or based upon the portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

During the first year the work should comprise: Careful drill in pronunciation; the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax, including the simpler uses of the conditional and subjunctive; abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; writing French from dictation.

As no examination in first-year French is given by the College Entrance Examination Board, the examination in this subject must be taken in September at Brown University; see page 31.

Elementary French. Second Year. *One unit.* At the end of the second year the pupil should be able to read and translate at sight easy French prose, to put into French simple English sentences taken from the language of every-day life or based upon the portion of the French text read, to write from dictation simple French sentences, and to answer questions on the rudiments of the grammar, as defined in the requirement for the first year, with the additions made below.

During the second year the work should comprise: The reading of from 250

to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; constant practice, as in the previous year, in translating into French easy variations upon the texts read; frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; writing French from dictation; continued drill upon the rudiments of grammar, with constant application in the construction of sentences; mastery of the forms and use of pronouns, pronominal adjectives, and of all but the rare irregular verb forms.

Suitable texts for the second year are: About's *Le roi des montagnes*; Bruno's *Le tour de la France;* Daudet's easier short tales; La Bédollière's *La Mère Michel et son chat;* Erckmann-Chatrian's stories; Foa's *Contes biographiques* and *Le petit Robinson de Paris;* Foncin's *Le pays de France;* Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon;* Legouvé and Labiche's *La cigale chez les fourmis;* Malot's *Sans famille;* Mairet's *La tâche du petit Pierre;* Mérimée's *Colomba;* extracts from Michelet; Sarcey's *Le siège de Paris;* Verne's stories.

The combined requirement in first and second year Elementary French is the same as that of the College Entrance Examination Board in French *a*.

Intermediate French. *One unit.* At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

The work should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts for the third year are: About's stories; Augier and Sandeau's *Le gendre de M. Poirier;* Béranger's poems; Corneille's *Le Cid* and *Horace;* Coppée's poems; Daudet's *La Belle-Nivernaise;* La Brète's *Mon oncle et mon curé;* Madame de Sévigné's letters; Hugo's *Hernani* and *La chute;* Labiche's plays; Loti's *Pêcheur d'Islande;* Mignet's historical writings; Molière's *L'avare* and *Le bourgeois gentilhomme;* Racine's *Athalie*, *Andromaque*, and *Esther;* George Sand's plays and stories; Sandeau's *Mademoiselle de la Seiglière;* Scribe's plays; Thierry's *Récits des temps mérovingiens;* Thiers's *L'expédition de Bonaparte en Egypte;* de Vigny's *La canne de jonc;* Voltaire's historical writings.

This requirement is the same as that of the College Entrance Examination Board in French *b*.

GERMAN.‡ Elementary German. First Year. *One unit.* At the end of the first year the pupil should be able to read at sight, and to translate, a

‡ An oral test forms a part of all entrance examinations in German.

passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions, to put into German simple English sentences taken from the language of every-day life or based upon the text given for translation, and to answer questions upon the rudiments of the grammar, as defined below.

During the first year the work should comprise: Careful drill upon pronunciation; the memorizing and frequent repetition of easy colloquial sentences; drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

As no examination in first year German is given by the College Entrance Examination Board, the examination in this subject must be taken in September at Brown University; see page 31.

Elementary German. Second Year. *One unit.* At the end of the second year the pupil should be able to read at sight, and to translate, a passage of easy dialogue or narrative prose, help being given on unusual words and constructions, to put into German short English sentences taken from the language of every-day life or based upon the text given for translation, to write from dictation simple German sentences, and to answer questions upon the rudiments of grammar, as defined in the requirement for the first year, with the additions made below.

During the second year the work should comprise: The reading of from 150 to 200 pages of literature in the form of easy stories and plays; accompanying practice in the translation into German of easy variations upon the matter read and also in the offhand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; writing German from dictation; continued drill upon the rudiments of the grammar and mastery of the adjective declensions, the passive, and word-order, in order that the pupil may use his knowledge with facility in the formation of sentences and state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder;* Arnold's *Fritz auf Ferien;* Baumbach's *Die Nonna* and *Der Schwiegersohn;* Gerstäcker's *Germelshausen;* Heyse's *L'Arrabbiata, Das Mädchen von Treppi,* and *Anfang und*

Ende; Hillern's *Höher als die Kirche;* Jensen's *Die braune Erica;* Leander's *Träumereien* and *Kleine Geschichten;* Seidel's *Märchen;* Stökl's *Unter dem Christbaum;* Storm's *Immensee* and *Geschichten aus der Tonne;* Zschokke's *Der zerbrochene Krug.*

Among shorter plays the best available are perhaps Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen;* Elz's *Er ist nicht eifersüchtig;* Wichert's *An der Majorsecke;* Wilhelmi's *Einer muss heiraten.* It is recommended, however, that not more than one of these plays be read. The narrative style should predominate. A good selection of reading matter for the second year would be Andersen's *Märchen*, or *Bilderbuch*, or Leander's *Träumereien*, to the extent of about forty pages. After that, such a story as *Das kalte Herze* or *Der zerbrochene Krug;* then *Höher als die Kirche* or *Immensee;* next a good story by Heyse, Baumbach, or Seidel; lastly *Der Prozess.*

The combined requirement in first and second year elementary German is the same as that of the College Entrance Examination Board in German *a*.

Intermediate German. *One unit.* At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English, paraphrased from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation, and to translate and explain a passage of classical literature taken from some text previously studied.

The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; writing connected German passages from dictation; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein;* Freytag's *Die Journalisten* and *Bilder aus der deutschen Vergangenheit*, — for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen;* Fouqué's *Undine;* Gerstäcker's *Irrfahrten;* Goethe's *Hermann und Dorothea* and *Iphigenie;* Heine's poems and *Reisebilder;* Hoffmann's *Historische Erzählungen;* Lessing's *Minna von Barnhelm;* Meyer's *Gustav Adolf's Page;* Moser's *Der Bibliothekar;* Riehl's *Novellen*, — for example, *Burg Neideck*, *Der Fluch der Schönheit*, *Der stumme Ratsherr*, *Das Spielmannskind;* Rosegger's *Waldheimat;* Schiller's *Der Neffe als Onkel*, *Der Geisterseher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen;* Scheffel's *Der Trompeter von Säkkingen;* Wildenbruch's *Das edle Blut;* a good anthology of German verse (such as Hatfield's or von Klenze's).

This requirement is the same as that of the College Entrance Examination Board in German *b*.

SPANISH. Elementary Spanish. First Year. *One unit.* At the end of the elementary course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of every-day life or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as defined below.

During the first year the work should comprise: Careful drill in pronunciation; the rudiments of grammar, including the conjugation of the more regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the use of natural forms of expression; the reading and accurate rendering into good English of from 100 to 150 duodecimo pages of graduated texts, with translation into Spanish of easy variations of the sentences read; writing Spanish from dictation.

As no examination in first year Spanish is given by the College Entrance Examination Board, this examination must be taken in September at Brown University; see page 31.

Elementary Spanish. Second Year. *One unit.* At the end of the second year the pupil should be able to read and translate at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of every-day life, or based upon a portion of the text read, to write from dictation simple Spanish sentences, and to answer questions on the rudiments of the grammar, as defined in the requirement for the first year, with the additions made below.

During the second year the work should comprise: The reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; constant practice, as in the previous year, in translating into Spanish easy variations upon the texts read; frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; writing Spanish from dictation; continued drill upon the rudiments of grammar, with constant application in the construction of sentences; mastery of the forms and use of pronouns, pronominal adjectives, and of all but the rare irregular verb forms.

Suitable texts for the second year are: Valera's *El Pájaro verde;* Alarcón's *Novelas Cortas;* Valdés's *José* and *La Hermana San Sulpicio;* selections from the works of Mesonero Romanos; Galdós's *Marianela;* Quintana's *La Vida de Nuñez de Balboa;* Padre Isla's version of *Gil Blas;* Carrión and Aza's *Zaraguëta.*

The combined requirement in first and second year Elementary Spanish is the same as that of the College Entrance Examination Board in Spanish.

Intermediate Spanish. *One unit.* At the end of the intermediate course the pupil should be able to read at sight ordinary Spanish prose or simple poetry, to translate into Spanish a connected passage of English based upon the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

The work should comprise the reading of from 400 to 600 pages of Spanish of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving Spanish paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts for the third year are Becquer's *Tales, Legends, and Poetry;* Valera's *Pepita Jiménez;* Ibanez's *La Barraca;* Galdós's *Doña Perfecta;* Echegaray's *El Gran Galeoto;* Ayala's *Consuelo;* Gil y Zárate's *Guzmán el Bueno;* Pereda's *Pedro Sánchez;* Hills and Morley's *Modern Spanish Lyrics;* Ford's *Selections from Don Quijote.*

As no examination in intermediate Spanish is given by the College Entrance Examination Board, this examination must be taken in September at Brown University; see page 31.

ITALIAN. Elementary Italian. First Year. *One unit.* At the end of the first year the pupil should be able to pronounce Italian accurately, to translate at sight very easy Italian prose, to put into Italian very simple English sentences taken from the language of every-day life or based upon a portion of the Italian text read, and to answer questions on the rudiments of grammar as defined below.

During the first year the work should comprise: Careful drill in pronunciation, the rudiments of grammar, including the conjugation of the regular verbs and the more common irregular verbs (including those that suffer orthographical and radical changes); the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax, including the simpler uses of the subjunctive; abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; the reading and accurate translation into good English of from 100 to 150 duodecimo pages of graduated texts, with translation into Italian of easy variations of the sentences read; writing Italian from dictation.

Elementary Italian. Second Year. *One unit.* At the end of the second year the pupil should be able to read and translate at sight easy Italian prose, to put into Italian simple English sentences taken from the language of every-day life, or based upon a portion of the Italian text read, to write from dictation simple Italian sentences, and to answer questions on the grammar.

During the second year the work should comprise: The reading of from 250 to 400 pages of easy prose or poetry; constant practice in translating into Italian easy variations upon the text read; frequent abstracts, sometimes oral

and sometimes written, of portions of the text already read; writing Italian from dictation; continued drill upon the grammar, with constant application in the construction of sentences.

Suitable texts for the second year are: Manzoni's *I Promessi Sposi*, Levi; *Selections from Carducci*, Marinoni.

Intermediate Italian. *One unit.* At the end of the intermediate course the pupil should be able to read at sight ordinary Italian prose or poetry, to translate into Italian a connected passage of English based upon the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

The work should comprise the reading of from 400 to 600 pages of Italian, including a considerable amount of Dante's *Divina Commedia;* constant practice in giving Italian paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

As no examinations in Italian are given by the College Entrance Examination Board, the examinations in this subject must be taken in September at Brown University; see page 31.

HISTORY. Ancient History. *One unit.* Special attention to Greek and Roman history, but including also a short introductory study of the more ancient nations and the chief events of the early Middle Ages, down to the death of Charlemagne.

Medieval and Modern European History. *One unit.* From the death of Charlemagne to the present time.

English History. *One unit.*

American History and Civil Government. *One unit.*

The examinations in history will be so framed as to require comparison and judgment on the pupil's part rather than mere memory. The examinations will presuppose the use of good text-books, at least 600 duodecimo pages of collateral reading, and practice in written work. Historical novels, plays, or poems will not be accepted in fulfilment of the requirement of collateral reading. The methods of instruction which the examinations in History and Civil Government presuppose are substantially identical with those set forth in *A History Syllabus for Secondary Schools* (D. C. Heath & Co.); and the references for collateral reading given in that manual may be taken as indications of the kind of collateral reading that should be done.

These requirements are the same as those of the College Entrance Examination Board in History *a*, *b*, *c*, *d*.

PHYSICS. *One unit.* Preparation in Physics should include: (1) The study of one standard text-book, for the purpose of obtaining a connected and com-

prehensive view of the subject. The student should be given opportunity and encouragement to consult other scientific literature. (2) Instruction by lecture-table demonstrations, to be used mainly for illustration of the facts and phenomena of physics in their qualitative aspects and in their practical applications. (3) Individual laboratory work, consisting of experiments requiring at least the time of thirty double periods. The experiments performed by each student should number at least thirty. The work should be so distributed as to give a wide range of observation and practice. The aim of laboratory work should be to supplement the pupil's fund of concrete knowledge and to cultivate his power of accurate observation and clearness of thought and expression. The exercises should be chosen with a view to furnishing forceful illustrations of fundamental principles and their practical applications. They should be such as yield results capable of ready interpretation, obviously in conformity with theory, and free from the disguise of unintelligible units. Slovenly work should not be tolerated, and the effort for precision should not lead to the use of apparatus or processes so complicated as to obscure the principle involved.

Throughout the whole course special attention should be paid to the common illustrations of physical laws and to their industrial applications.

In the solution of numerical problems, the student should be encouraged to make use of the simple principles of algebra and geometry to reduce the difficulties of solution, but unnecessary mathematical difficulties should be avoided, and care should be exercised to prevent the student from losing sight of the concrete facts in the manipulation of symbols.

Every candidate must present as a part of the examination a note-book, certified by the teacher, containing in the candidate's own language a description of his laboratory exercises, with a careful record of the steps, observations, and results of each exercise. The note-book must afford clear evidence of the pupil's ability to make accurate observations and to draw direct conclusions.

This requirement is the same as that of the College Entrance Examination Board in Physics.

CHEMISTRY. *One unit.* The following outline includes only the indispensable topics which must be studied in the class-room and laboratory. The material is, for the most part, common to all elementary text-books and laboratory manuals. The order of presentation will naturally be determined by the teacher.

Outline. The chief physical and chemical characteristics, the preparation and the recognition of the following elements and their chief compounds: *oxygen*, *hydrogen*, *carbon*, *nitrogen*, *chlorine*, *bromine*, *iodine*, *fluorine*, *sulphur*, phosphorus, silicon, potassium, *sodium*, calcium, magnesium, *zinc*, copper, mercury, silver, aluminum, *lead*, tin, *iron*, manganese, chromium.

More detailed study should be confined to the italicized elements and to a restricted list of compounds, such as: water, hydrochloric acid, carbon-

monoxide, carbon-dioxide, nitric acid, ammonia, sulphur dioxide, sulphuric acid, hydrogen-sulphide, sodium-hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flames, acids, bases, salts, oxidation and reduction, crystallization, manufacturing processes, familiar substances (illuminating gas, explosives, baking powder, mortar, glass, steel, common alloys, porcelain, soap).

Attention should be given also to combining proportions by weight and volume; calculations founded on these and on Boyle's and Charles's laws; symbols and nomenclature (with careful avoidance of special stress, since these are non-essential); atomic theory, atomic weights and valency in a very elementary way; nascent state; natural grouping of the elements; solution (solvents and solubility of gases, liquids, and solids; saturation); ionization; mass action and equilibrium; strength (=activity) of acids and bases; conservation and dissipation of energy; chemical energy (very elementary); electrolysis. Chemical terms should be defined and explained, and the pupil should be able to illustrate and apply the ideas they embody. The theoretical topics are not intended to form separate subjects of study, but should be taught only so far as is necessary for the correlation and explanation of the experimental facts.

It is recommended that the candidate's preparation in chemistry should include: (1) Individual laboratory work, comprising at least forty exercises; (2) instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations; (3) the study of at least one standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.

Every candidate must present as a part of the examination, a note-book, certified by the teacher, containing in the candidate's own language a description of his laboratory exercises, with a careful record of the steps, observations, and results of each exercise. The note-book must afford clear evidence of the pupil's ability to make accurate observations and to draw direct conclusions.

This requirement is the same as that of the College Entrance Examination Board in Chemistry.

BOTANY. *One unit.* The course should include a careful study of the general principles of Anatomy and Morphology, Physiology and Ecology; also the natural history of the plant groups, and classification.

Individual laboratory work by the student is essential and should receive at least double the amount of time given to recitation. Records of the laboratory work, properly certified by the teacher, in which stress is laid upon accurate drawing and precise description, must be presented at the time of examination.

Where special circumstances, such as exceptional difficulty of obtaining material, prevent the completion of the entire amount while allowing its

equivalent in thoroughness, it is recommended that some of the minor topics be omitted rather than that the attempt be made to cover all more superficially. To provide for this contingency, the examination papers will always include a number of alternative questions.

This requirement is the same as that of the College Entrance Examination Board in Botany.

PHYSIOGRAPHY. *One unit.* The candidate's preparation should include: (1) The study of one of the leading secondary text-books in physical geography, that a knowledge may be gained of the essential principles and of well-selected facts illustrating those principles; (2) individual laboratory work comprising at least forty exercises. From one-third to one-half of the candidate's class-room work should be devoted to laboratory exercises. In the autumn and spring, field trips should take the place of laboratory exercises. Properly attested reports of field and laboratory work must be presented at the time of examination.

This requirement is the same as that of the College Entrance Examination Board in Geography.

ASTRONOMY. *One unit.* The requirement in Astronomy demands class instruction in the elementary principles of the science, including observations of the heavens with reference to the positions and movements of the heavenly bodies. The following are the chief topics to be studied: *The Celestial Sphere:* designation of the directions of a heavenly body. *The Earth:* its axial rotation; time, latitude, longitude; its orbital revolution; precession; aberration, the seasons, equation of time, the calendar. *The Moon:* its axial rotation, orbital motion, librations, phases, surface features, physical condition; lunar and solar eclipses. *The Sun:* its rotation, physical characteristics, light, and heat. *The Planets:* apparent and real motions, individual characteristics. *The Law of Gravitation:* its control of the solar system; the tides. *Comets and Meteors:* their nature and motions. *The Stars:* designation, classification by constellations, motions, distance, brightness, variables. *Stellar Systems:* clusters, nebulae; the stellar universe, cosmogony.

As no examination in Astronomy is given by the College Entrance Examination Board, the examination in this subject must be taken in September at Brown University; see page 31.

ADMISSION TO ADVANCED STANDING

A candidate for admission to advanced standing, unless coming from an approved institution of collegiate rank, will be examined in the studies required for entrance to Brown University (unless admitted by certificate) and in those already pursued by the class which he desires to enter.

A candidate for admission to advanced standing who comes from an ap-

proved institution of collegiate rank may receive credit, without examination, for work done at that institution. He will be required, however, to present, or to have had accepted elsewhere, the same entrance subjects as are demanded of students entering Brown University without advanced credit; and to cover, or to have covered, all the prescribed subjects in the course leading to the desired degree at Brown University. The Committee on Registration and Attendance will determine the amount of credit that he may receive, on receipt of the following papers, all of which should be sent to the Registrar of Brown University: (1) a formal statement, made out and signed by the proper official of the institution previously attended, showing all preparatory subjects accepted by it for entrance (specifying whether by examination or certificate), and all the courses attended at college, with their catalogue numbers, and the standing attained therein by the student; (2) a similar official statement as to whether the student has completed the amount of work regularly required up to the time of his withdrawal from the institution previously attended, or has done work in excess thereof, or of less amount, or has incurred conditions or probation; (3) a marked catalogue of the institution previously attended, describing the subjects taken; (4) a letter of honorable dismissal from the institution last attended.

Every candidate for a bachelor's degree, admitted to advanced standing, must remain in residence at the University at least one year before receiving his degree, and must take in regular course the full amount of work ordinarily required during the academic year.

ADMISSION OF SPECIAL STUDENTS

Mature persons of good character who desire to pursue some special subjects and who have had the requisite preliminary training are allowed to enter the various courses of study in the University without becoming candidates for a degree.

Applicants for registration as special students must present to the Registrar, on or before August 1 if possible, a certified and detailed statement of the nature and extent of their preparatory work, including testimonials of character and ability. In case a student has attended more than one institution, he must present credentials from each of them. Applicants must satisfy the Committee on Registration and Attendance, by passing the entrance examinations or presenting certificates, that they are qualified to pursue the courses desired.

Special students are subject to the same regulations regarding attendance and examinations as candidates for degrees; they must take fifteen hours of class-room work a week unless satisfactory reasons for a smaller assignment are presented.

REGISTRATION AND ENROLMENT OF UNDERGRADUATES

REGISTRATION. In September all new students, whether candidates for a degree or special students, must report at the Administration Building between 9 a.m. and 1 p.m. or between 2.30 p.m. and 5 p.m. on the Monday or Tuesday preceding the opening of the first semester (for 1918, September 23 or 24), and fill out registration cards for the whole of the ensuing year. Failure to comply with this rule will be treated as late registration and a fee of three dollars will be charged. All new students must present at or before the time of registration all credentials necessary for admission as candidates for a degree or as special students.

In May of each year all undergraduates in residence, whether candidates for a degree or special students, must obtain at the Registrar's office registration cards, which must be filled out with a statement of the courses elected for the whole of the ensuing year and returned not later than June 1. Failure to comply with this rule will be treated as late registration and a fee of three dollars will be charged. *Members of the Sophomore class who are candidates for the degree of Bachelor of Philosophy must file their concentration cards with their registration cards.* See Requirements for Concentration, pages 58, 59.

When semester courses are grouped in one paragraph (*e.g.* Biology 1, 2), they constitute a year course and neither semester may be elected independently unless specific statement to the contrary is made. In starred courses a final mark will be given at the end of the course, the mark given at the end of the first semester being regarded as temporary.

Changes in registration will be allowed only on presentation of sufficient reasons to the Committee on Registration and Attendance. Requests for permission to make changes in September should be sent to the Registrar before September 7, if possible. Requests for permission to make changes for the second semester must be presented to the Registrar before the beginning of the examinations of the first semester (January 21, 1918), unless these requests are the result of failures, in which case they must be presented in writing to the Registrar two days before the opening of the second semester (February 4, 1918). A fee of three dollars is charged for changes.

The Committee on Registration and Attendance will be in session at the Administration Building between 9 a.m. and 1 p.m. and between 2.30 p.m. and 5 p.m. on the two days preceding the opening of each semester.

ENROLMENT. All students must report at the Registrar's office between 9 a.m. and 1 p.m. or between 2.30 p.m. and 5 p.m. on one of the two days preceding the opening of each semester and have their names checked as enrolled. Failure to report will be treated as late enrolment and a fee of three dollars will be charged.

REQUIREMENTS FOR DEGREES

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

I. PRESCRIBED SUBJECTS

Ancient Languages (either Latin or Greek, or both). Six hours. At least three hours must be taken in the Freshman year, and the six hours must be completed by the end of the Sophomore year.

French or *German.* Six or more hours. Including the amount presented for admission, every student must complete before graduation at least four years' work in French or four years' work in German. A minimum of six hours must be taken in college, of which at least three hours must be taken in the Freshman year. Students who present the full entrance requirement in both Greek and Latin and who elect six hours of Greek and Latin in college will not be required to take more than six hours of modern language in college.

Mathematics. Three hours. Freshman year.

English Composition and Rhetoric. Three hours. First semester, Freshman year. Second semester, Sophomore year.

English Literature. Three hours. Second semester, Freshman year. First semester, Sophomore year.

European History. Three hours. Sophomore or Junior year.

Physical or Natural Science. A three-hour course continuous through the year. Freshman, Sophomore, or Junior year.

Economics, and Social and Political Science. Three hours. Sophomore, Junior, or Senior year.

Philosophy. A three-hour course continuous through the year. Sophomore or Junior year.

II. REQUIREMENTS ARRANGED BY YEARS

FRESHMAN YEAR

I. Required Courses. *Latin* or *Greek*, three hours; *French* or *German*, three hours; *Mathematics*, three hours; *English*, three hours.

II. Elective Courses. One three-hour course continuous through the year must be chosen from the following list: *Latin*, *Greek*, *French*, *German*, *Chemistry*, *Physics*, *Botany*, *Biology*, *Geology*, *Astronomy*, *Mechanical Drawing.*

SOPHOMORE YEAR

That portion of the required work in ancient languages, modern languages, and English, not completed in the Freshman year, and other required and elective courses sufficient to make a total of fifteen hours a week.

JUNIOR YEAR

The required History, Philosophy, and Physical or Natural Science, if not previously taken, and other required and elective courses sufficient to make a total of fifteen hours a week.

SENIOR YEAR

All required courses not previously taken, and elective courses sufficient to make a total of fifteen hours a week.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

I. PRESCRIBED SUBJECTS

Mathematics. Three hours. Freshman year. This subject may be omitted by students who intend to substitute Argumentation in the Sophomore year.

English Composition and Rhetoric. Three hours. First semester, Freshman year. Second semester, Sophomore year.

English Literature. Three hours. Second semester, Freshman year. First semester, Sophomore year.

French or *German.* Including the amount presented for admission, every student must complete before graduation four years' work in French or four years' work in German. At least three hours must be taken in the Freshman year.

Biology.‡ Three hours. Freshman or Sophomore year.

Physics, *Chemistry*, *Botany*, *Geology*, or *Astronomy* (only one of this group required). Three hours. Freshman or Sophomore year. This requirement does not apply to students who have presented Physics and Chemistry for admission.

Classical Civilization (*Greek* 15, *Latin* 16). Three hours. Freshman or Sophomore year. Freshman year for students who do not take Mathematics.

European History. Three hours. Freshman, Sophomore, or Junior year.

Economics, and Social and Political Science. Three hours. Sophomore, Junior, or Senior year.

‡ Botany may be substituted for Biology in the second semester.

Philosophy. A three-hour course continuous through the year. Sophomore or Junior year.

Argumentation (*English* 7, 8). Three hours. Sophomore year. For students who have not taken Mathematics in the Freshman year.

II. REQUIREMENTS ARRANGED BY YEARS

FRESHMAN YEAR

I. Required Courses. *English; French* or *German; Mathematics* (for students who do not intend to substitute Argumentation in the Sophomore year); *Classical Civilization* (*Greek* 15, *Latin* 16) (for students who do not take Mathematics).

II. Elective Courses. Two three-hour courses continuous through the year must be chosen from the following list: *Latin*, *Greek*, *French*, *German*, *Classical Civilization* (*Greek* 15, *Latin* 16), *History*, *Chemistry*, *Physics*, *Botany*, *Biology*, *Geology*, *Astronomy*, *Mechanical Drawing.*

SOPHOMORE YEAR

That portion of the required work in modern languages not completed in the Freshman year.

Biology;‡ for students who have not taken this course in the Freshman year.

Physics, *Chemistry*, *Botany*, *Geology*, or *Astronomy;* for students who have not presented both Physics and Chemistry for admission or taken a course in Physical Science in the Freshman year.

Argumentation (*English* 7, 8); for students who have not taken Mathematics in the Freshman year.

Classical Civilization (*Greek* 15, *Latin* 16); for students who have not taken this course in the Freshman year.

English.

Other required and elective courses sufficient to make a total of fifteen hours a week.

JUNIOR YEAR

The required History and Philosophy, if not previously taken, and other required and elective courses sufficient to make a total of fifteen hours a week.

During the Junior and Senior years a student must take at least four courses outside the department chosen for special work. See Requirements for Concentration, pages 58, 59.

‡ Botany may be substituted for Biology in the second semester.

SENIOR YEAR

All required courses not previously taken, and elective courses sufficient to make a total of fifteen hours a week.

III. REQUIREMENTS FOR CONCENTRATION

At the close of the Sophomore year each candidate for the degree of Bachelor of Philosophy must choose from the following list a department in which he intends to do special work during the Junior and Senior years, and must elect at least three courses of three hours a year each in this department. If he has not already taken a three-hour year course in the department chosen, he must elect four courses. The selection of these courses must be made in consultation with the head of the department and must be approved by him. When two departments are combined, the selection must be made in consultation with the head of the department first named.

At any time before the beginning of the Senior year a student may, with the approval of the Committee on Registration and Attendance, change the department in which he is to do his special work.

With the approval of the department in which the student is doing special work, he may count as the equivalent of one course work which does not require regular class-room attendance.

DEPARTMENTS IN WHICH SPECIAL WORK MAY BE TAKEN

Art.
Art, and Greek Literature and History.
Art, and Roman Literature and History.
Art, and Music.
Art, and History.
Astronomy.
Astronomy, and Civil Engineering.
Astronomy, and Physics.
Astronomy, and Mathematics.
Astronomy, and Geology.
Biblical Literature and History.
Biblical Literature and History, and Greek Literature and History.
Biblical Literature and History, and Philosophy.
Biology.
Botany.
Botany, and Biology.
Chemistry.
Civil Engineering.
Economics.

Education.
Education, and Philosophy.
Education, and Social and Political Science.
Education, and History.
Electrical Engineering.
English.
Geology.
Germanic Languages and Literatures.
Greek Literature and History.
Greek Literature and History, and Roman Literature and History.
Greek Literature and History, and Biblical Literature and History.
Greek Literature and History, and Art.
History.
Mathematics.
Mechanical Engineering.
Mechanics and Mechanical Drawing.
Mechanics, and any Engineering department.
Philosophy.
Physics (exclusive of Electrical Engineering).
Roman Literature and History.
Roman Literature and History, and Art.
Roman Literature and History, and Greek Literature and History.
Roman Literature and History, and Indo-European Philology.
Romance Languages and Literatures.
Social and Political Science.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

For Students who enter in 1917 or thereafter

FRESHMAN YEAR

Trigonometry, Analytic Geometry, and Elementary Calculus (*Mathematics* 17A, 18A). Four hours. Through the year.

Mechanical Drawing (*Engineering* 3). Three hours. First semester.

Descriptive Geometry (*Mathematics* 50A). Three hours. Second semester.

Surveying and Engineering Mechanics (*Engineering* 1, 2). Three hours. Through the year.

English 1, 48.‡ Three hours. Through the year.

‡ Students whose work in English 1 is satisfactory to the department may take English 2 in place of English 48 in the second semester of the Freshman year, and substitute some other course for English 49, 2 in the Sophomore year.

Chemistry 1, 2 *or a substitute.* Three hours. Through the year. If chemistry is presented for admission, an approved substitute may be elected.

SUMMER VACATION

During part of the vacation between the Freshman and Sophomore years a course in either surveying (*Engineering* 5) or shop practice (*Engineering* 6) will be required.

SOPHOMORE YEAR

Differential and Integral Calculus (*Mathematics* 19 A, 20 A). Three hours. Through the year.

Economics 1 *and Social and Political Science* 1. Three hours. Through the year.

Physics 27, 28. Four hours. Through the year.

Mechanics and Graphics (*Engineering* 7, 8). Three hours. Through the year.

English 49, 2 *or an approved substitute.*‡ Three hours. Through the year.

JUNIOR YEAR

Mechanics and Structures (*Engineering* 9, 10). Four hours. Through the year.

Electrical Engineering (*Engineering* 11, 12). Three hours. Through the year.

Heat and Power (*Engineering* 13, 14). Three hours. Through the year.

Materials of Engineering (*Engineering* 15). Three hours. First semester.

Hydraulics (*Engineering* 16). Three hours. Second semester.

Approved elective.§ Three hours. Through the year.

SENIOR YEAR

Engineering Economics (*Engineering* 17, 18). Three hours. Through the year.

Report of special investigation (*Engineering* 19, 20).

Engineering electives. Six hours. Through the year.

Approved electives.§ Six hours. Through the year.

The following courses are offered only for students who entered before 1917. In place of them there is now offered a single course leading to the degree of Bachelor of Science in Engineering. See page 59.

‡ Students whose work in English 1 is satisfactory to the department may take English 2 in place of English 48 in the second semester of the Freshman year, and substitute some other course for English 49, 2 in the Sophomore year.

§ At least one of these electives counting for three hours through the year must be taken in some department not in the Division of Engineering.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

For Students who entered before 1917

SOPHOMORE YEAR

First Semester	*Second Semester*
Mathematics 19	Mathematics 20
Physics 27	Physics 28
Mathematics 51	English 2
Mech. Drawing 3	‡ Soc. and Pol. Science 1
‡ Economics 1	‖ Civil Engineering 4
§ Civil Engineering 1	Civil Engineering 6
Civil Engineering 3	Civil Engineering 12
Civil Engineering 5	

JUNIOR YEAR

Civil Engineering 7	Civil Engineering 16
Mechanics 1	Mechanics 2
Geology 3	Geology 4
Physics 21	Physics 22
Astronomy 5	Civil Engineering 10
Elec. Engineering 3	Civil Engineering 14
	Civil Engineering 26

SENIOR YEAR

Mech. Engineering 19	Mech. Engineering 20
Mech. Engineering 15	Mech. Engineering 24
Mechanics 3	Mechanics 4
Civil Engineering 37	Civil Engineering 38
Civil Engineering 45	Civil Engineering 40
¶ An elective course	Civil Engineering 34
	Civil Engineering 42 or 46
	¶ Civil Engineering 36

‡ Or some year course in English or History or Philosophy, chosen with the approval of the head of the Department of Civil Engineering.

§ Civil Engineering 1 is taken in September during the two weeks preceding the opening of college.

‖ Civil Engineering 4 is taken during the spring recess.

¶ In special cases, subject to the approval of the head of the Department of Civil Engineering, courses in Engineering or Science may be substituted for the thesis.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

For Students who entered before 1917

SOPHOMORE YEAR

First Semester	*Second Semester*
Mathematics 19	Mathematics 20
Physics 27	Physics 28
Physics 21	Physics 22
‡ Soc. and Pol. Science 1	Economics 1
Mathematics 51	Mech. Engineering 8
Mech. Drawing 3	Mech. Engineering 2
Mech. Engineering 1	

JUNIOR YEAR

Mechanics 1	Mechanics 2
Elec. Engineering 1	Elec. Engineering 2
Elec. Engineering 5	Elec. Engineering 6
Mathematics 9	Elec. Engineering 8
Mech. Engineering 9	Mech. Engineering 10
Mech. Engineering 15	Mech. Engineering 16
Mech. Engineering 3	

SENIOR YEAR

Mechanics 3	Mechanics 4
	Mech. Engineering 24
Physics 23	Civil Engineering 18
Elec. Engineering 9	Elec. Engineering 10
Elec. Engineering 11	Elec. Engineering 14
Elec. Engineering 17	Elec. Engineering 16
Elec. Engineering 19	Elec. Engineering 18
Mech. Engineering 19	Elec. Engineering 20
§ An elective course	Mech. Engineering 20
	Civil Engineering 26
	Physics 14

‡ Or some other course, not technical, chosen with the approval of the head of the Department of Electrical Engineering.

§ A three-hour course, chosen with the approval of the head of the Department of Electrical Engineering.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

For Students who entered before 1917

SOPHOMORE YEAR

First Semester	*Second Semester*
Mathematics 19	Mathematics 20
Mathematics 51	Mech. Engineering 8
Mech. Drawing 3	Physics 22
Physics 21	Physics 28
Physics 27	
‡ Soc. and Pol. Science 1	‡ Economics 1
Mech. Engineering 1	Mech. Engineering 2

JUNIOR YEAR

Mechanics 1	Mechanics 2
Elec. Engineering 1	Elec. Engineering 2
Mech. Engineering 9	Mech. Engineering 10
Mech. Engineering 15	Mech. Engineering 16
Mech. Engineering 17	Mech. Engineering 18
§ An elective course	§ An elective course

SENIOR YEAR

Mech. Engineering 11	Mech. Engineering 12
Mech. Engineering 19	Mech. Engineering 20
Mech. Engineering 5	Mech. Engineering 22
Civil Engineering 43	Mech. Engineering 14
Mechanics 3	Mechanics 4
	Mech. Engineering 24
	Civil Engineering 18
	Civil Engineering 26
Mech. Engineering 25	Mech. Engineering 26
§ An elective course	§ An elective course

‡ Or some year course in English or History or Philosophy, chosen with the approval of the head of the Department of Mechanical Engineering.

§ A three-hour elective course through the year, chosen with the approval of the head of the Department of Mechanical Engineering.

REGULATIONS UNDER WHICH A STUDENT MAY TAKE A FIRST DEGREE IN LESS THAN FOUR YEARS

A candidate for a first degree who has maintained a satisfactory standing in his studies may, with the consent of the Committee on Registration and Attendance, take work in addition to the regular number of hours prescribed in the curriculum of the course which he is pursuing.

A student who at the beginning of his Senior year lacks less than thirty semester hours of completing his course may, with the consent of the Committee on Registration and Attendance, distribute his work over the year.

A student who at the beginning of any semester lacks less than fifteen semester hours of completing his course may, for reasons deemed sufficient by the Committee on Registration and Attendance, be excused from taking more than the necessary number of hours.

A candidate for a first degree, who has credit for the required number of hours of work, including all the required subjects, may, at the end of the semester in which his work is completed, be excused from further attendance at the University, and may receive his degree at the Commencement next following such semester.

For conditions under which graduate work may be pursued during the Senior year, see page 69, "Graduate Study."

CREDIT FOR SUMMER WORK. A candidate for a first degree may receive credit for work done at the summer school of an approved institution of collegiate rank, provided that the work have the approval of the head of the corresponding department in Brown University; but no credit will be given for required courses except those specially designated by the Committee on Registration and Attendance in conference with the departments concerned. The amount of credit given at the institution in question will be given at Brown University, but the total credit for work at a summer school in any one summer shall not exceed six semester hours, except as noted below. Applications must be filed at the Registrar's office before Commencement on blanks provided for the purpose.

A candidate for a first degree may, with the consent of the head of a department and with the approval of the Faculty, pursue studies (except required courses) connected with that department during any summer in which he does not attend a summer school, and may receive credit for such studies, provided that the work be done under the supervision of the head of the department concerned and that the candidate pass an examination in all the work before the beginning of the next academic year. The amount of credit will be determined by the head of the department, but the total credit for any one summer shall not exceed three semester hours, except as noted below. Applications must be approved by the head of the department concerned, and must be filed

at the Registrar's office before June 1, on blanks provided for the purpose. A student will not be allowed to do summer work in connection with any department of the University until he has presented to the head of the department a registration card signed by the Registrar.

Students who have no deficiency due to failure and who have an average grade of *B* in all courses to date may receive a maximum credit of nine semester hours for work at a summer school, or a maximum credit of six semester hours for work done under the supervision of a department. Such students will also be allowed to continue or supplement work done at a summer school by work done under the supervision of a department in such manner that a summer school credit of two semester hours may be extended in the same subject to three semester hours, two summer school credits of two hours each may be extended in the same subjects to three semester hours each, or a summer school credit of four semester hours in one subject may be extended in the same subject to six semester hours. In no other manner will credit be allowed both for work done at a summer school and for work done under the supervision of a department during the same summer.

ATTENDANCE, STANDING, AND EXAMINATIONS

ATTENDANCE. Every student is required to attend every session of the classes in which he is registered, including gymnasium, and also the daily chapel service.

STANDING. A record is kept of every student's attendance and of his proficiency in his several studies. At the close of each semester a report is sent to the parent or guardian of every undergraduate student containing a record of all his absences from required exercises, and indicating his standing in each of his studies for the semester, including any deficiency. A student who, in any semester, has failed in three or more courses counting for more than eight hours a week, will not be registered again without special action of the Committee on Registration and Attendance.

There are four pass grades: *A*, *B*, *C*, *D*. No student will be allowed to graduate who has not attained a grade above *D* in at least sixty semester hours of college work.

E is assigned to those who have failed to pass; or to those whose work during the semester has been so unsatisfactory that, in the opinion of the instructor, they should not be allowed an examination; or to those who, in a laboratory course, have not completed half the work required.

O is assigned to those who have been absent one-half the time in a course, or to those whose absence from the examination is not excused by the Dean.

A student who receives the mark *E* in a required course must repeat the course; except that in required courses designated by the Committee on Registration and Attendance, in conference with the department concerned, a failure may be made up by work at an approved summer school. A student who receives the mark *E* in an elective course may substitute some other course approved by the Committee on Registration and Attendance, or he may take an equivalent amount of approved summer work.

I is assigned to those whose semester work is incomplete, but satisfactory so far as done. All incomplete work must be made up before the middle of the following semester. If this requirement is not met, the mark will be changed to *E*, unless an extension of time is granted by the Committee on Registration and Attendance.

Abs. is assigned to those who have been absent from examination, unless *E* has already been assigned.

A student whose semester work is incomplete and who is absent from the examination is assigned the marks *I* and *Abs.*

EXAMINATIONS. All classes are examined at the close of each semester. A student is not admitted to the examination in a study in which he has received the mark *E* or *O*.

Examinations other than the regular semester examinations are given only to students who have received the mark *Abs.* and whose absences have been excused by the Dean, and to candidates for advanced standing; but candidates for the degree of Bachelor of Science who have failed in a first examination may, at the discretion of the department concerned, be allowed a second examination, subject to the regulations below. Such students must present to the department satisfactory evidence that the work of the course has been thoroughly reviewed.

A student is not admitted to a special examination except on written authorization from the Registrar. If the examination is taken to remove the mark *Abs.* or *E*, the student must pay to the Registrar a fee of two dollars.

Special examinations upon the work of the first semester are given only during the following spring recess. Special examinations upon the work of the second semester are given only in the following September on as many days as may be necessary preceding the opening of the academic year, except that special examinations on the work of the second semester of the Senior year are given on the Saturday and Monday after the examination period in June.

Students desiring special examinations in the spring recess must make application to the Registrar not later than March 1, specifying the subjects in which examinations are desired. On or before March 15 a schedule of special examinations will be posted. Students desiring special examinations in September must make application to the Registrar not later than August 15, specifying the subjects in which examinations are desired. A schedule of the September examinations is sent about September 1 to the students concerned.

Special examinations at times other than those scheduled are allowed only by consent of the Committee on Registration and Attendance.

Special examinations for advanced standing are, so far as possible, arranged at the times assigned for other special examinations.

EXAMINATIONS TO REMOVE ENTRANCE CONDITIONS. Students who enter with conditions in English 1, English 2, Algebra, or Plane Geometry are required to take regular instruction in these subjects during the Freshman year under a tutor approved by the department concerned. A special examination will be given on completion of the work, but in no case before the close of the Christmas recess.

Students who fail to meet the entrance requirements in English or Mathematics before the beginning of the Junior year will not be allowed to register until these deficiencies have been removed.

Freshmen who have entrance conditions in subjects other than English, Algebra, or Plane Geometry may remove the conditions by passing the regular

mid-year entrance examinations. Applications must be filed with the Registrar before January 15, on blanks provided for the purpose. No student who has failed in an entrance examination will be granted a second examination at any time other than September, except on presentation of a tutor's certificate that he is prepared for such examination, and on payment of a fee of two dollars. No entrance examinations other than those appointed above will be held unless ordered by the Committee on Registration and Attendance.

Students who enter with conditions in Language, Science, History, Solid Geometry, Plane Trigonometry, or Advanced Algebra, must remove these conditions, by examination, before the beginning of the Sophomore year; otherwise such conditions will be regarded as deficiencies in college work and the students required to take extra courses in the departments in which the deficiencies occur, the amount and selection of the courses to be determined by the Committee on Registration and Attendance in consultation with the departments.

GRADUATE STUDY

Opportunity for advanced study in Brown University is open to two classes of students:

(1) Students who have received the bachelor's degree (other than the degree of Bachelor of Education) from Brown University or from some other college whose requirements for the degree are substantially equivalent.

(2) Students in the senior class in Brown University who have received an average mark of *B* throughout their course, and who require not more than twelve semester hours for the completion of their work for the bachelor's degree.

Subject to conditions stated below, students of these two classes may be enrolled as candidates for advanced degrees, by vote of the Faculty on recommendation of the Dean of the Graduate Department. If not so enrolled, they are designated as special graduate students. An undergraduate candidate for an advanced degree is not permitted to take more than twenty-one hours in a single semester.

REGISTRATION OF GRADUATE STUDENTS. Not later than the eighth day of the first semester, every candidate for registration as a graduate student must file with the Dean of the Graduate Department, on a blank provided for the purpose, an application designating the courses he desires to take during the ensuing year. This application must be approved by the professor in charge of each course. If not a student or graduate of Brown University, he must file with his application his diploma or other evidence of holding the bachelor's degree, together with a marked catalogue or detailed statement showing the courses he has pursued. On completion of these requirements the Dean will issue a blank authorizing the candidate to register at the Registrar's office in the courses to be taken. This blank, together with a receipt from the Comptroller for the advance payment on the bill for the semester, must be presented to the Registrar before any classes are attended. An authorization blank will not be required for the second semester unless a change in courses has been made. Registration for the second semester must be completed within three days after the opening of the semester. Registration later than the days designated is permitted only on payment of a fee of three dollars.

REQUIREMENTS FOR ADVANCED DEGREES

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS. To become a candidate for the degree of Master of Arts, the student must hold (or, if an undergraduate student, be a candidate for) a bachelor's degree other than a degree given for technical work.

To obtain the degree of Master of Arts, the candidate must complete a year of graduate study of not less than thirty semester hours. The work may be all

in one subject, but may not be in more than three, that is, a major subject and one or two minor subjects chosen with the approval of the professor in charge of the major subject. It shall be arranged according to a coherent plan by the professor in charge of the major subject. An essay or report is required in the major subject and a final oral examination may be required at the option of the professor in charge of the major subject. The degree is granted only on the written recommendation of the professor in charge of the major subject.

Graduate Work Done in Other Institutions. Graduate work done in residence in another institution and not used in fulfilment of the requirements for an advanced degree elsewhere may be offered in partial fulfilment of the requirements for the degree of Master of Arts, provided it shall have the approval of the Dean of the Graduate Department and the professors in charge of the student's work; but the equivalent of at least eighteen semester hours must be done in residence at Brown University.

Undergraduate Credit. A graduate of Brown University who has to his credit undergraduate courses in which he has received a grade of *A* or *B*, which have not been counted toward the bachelor's degree, may offer such courses in partial fulfilment of the requirements for the degree of Master of Arts, provided they conform to the requirements for the degree.

Graduate Students in Undergraduate Courses. When a graduate student pursues courses regularly open to undergraduates, only those courses in which the grade of *A* or *B* has been received shall be counted toward the degree.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE. To become a candidate for the degree of Master of Science, the student must have completed, or plan to complete, in addition to his work for the degree, sixty semester hours in mathematics and the sciences.

To obtain the degree of Master of Science, the candidate must complete a year of graduate study of not less than thirty semester hours in mathematics, engineering, physics, chemistry, astronomy, the biological sciences, psychology, or the geological sciences, in addition to the sixty hours, specified above, in mathematics and the sciences. The work may be all in one subject, but may not be in more than three, that is, a major subject and one or two minor subjects chosen with the approval of the professor in charge of the major subject. It must be arranged according to a coherent plan by the professor in charge of the major subject. A report of an investigation or a thesis is required in the major subject and a final oral examination may be required at the option of the professor in charge of the major subject. As a substitute for the report an advanced six-hour laboratory course, extending through the year, may be accepted by the professor in charge of the major subject. The degree is granted only on the written recommendation of the professor in charge of the major subject.

The provisions in regard to work done in other institutions, undergraduate credit, and grades to be obtained in courses open to undergraduates are the same as for the degree of Master of Arts.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY. To become a candidate for the degree of Doctor of Philosophy, the student must choose a major and a minor subject. His course as a whole must be arranged according to a coherent plan by the professor in charge of the major subject and must be approved by the Dean of the Graduate Department. The courses in the minor subject must be approved by the professor in charge of that subject. The full statement of the course, including the subject of the thesis (see below) and the languages in which the student is to be examined (see below), must be filed with the Dean of the Graduate Department not later than October 15 of the last year of candidacy. Candidates who fulfil the requirements stated below are recommended for the degree by vote of the Faculty on recommendation by the Dean of the Graduate Department and the professors in charge of the major and minor subjects.

The candidate must possess a comprehensive knowledge of his major and minor subjects, attested in writing by the professors in charge of those subjects and by a public examination conducted by the Dean of the Graduate Department, the officers of professorial rank in the departments in which the major and minor subjects are taken, and such other members of the Faculty as that body may appoint. This examination will be held not later than June 1 of the last year of candidacy, on a date set by the Dean of the Graduate Department. Application for examination must be made by the candidate to the Dean of the Graduate Department by April 1 of the last year of candidacy.

The candidate must present a thesis on a topic related to his major subject, embodying the results of original research, giving evidence of high scholarship, and constituting a contribution to knowledge. The thesis must have the written approval of the professor in charge of the major subject, and must be presented to the Dean of the Graduate Department in typewritten copy or in print before April 15 of the last year of candidacy. It will be accepted as satisfying the requirements for the degree only when approved by the Faculty and when either the thesis as a whole, or a summary of the essential facts and conclusions which it embodies, has been printed.‡

The candidate must possess a reading knowledge of at least two foreign languages (in addition to any language which may constitute his major subject) sufficient for the purposes of his special studies, such languages to be designated by the professor in charge of the major subject. He will be examined in these languages before December 1 in the last year of his candidacy by a committee consisting of the Dean of the Graduate Department, representatives of the departments in charge of the major and minor subjects, and representatives of the language departments concerned. The requirements for this degree being qualitative rather than quantitative, no definite statement of the time required

‡ In lieu of the thesis or summary in printed form, a summary with a cash deposit, sufficient to cover the expense of printing, may be accepted. If the thesis, or summary, is printed by the author within a year after receiving his degree, and copies thereof are furnished to the University, the deposit will be returned. Otherwise the summary will be printed by the University.

for obtaining the degree can be made, but in no case will the degree be granted for less than two years of graduate work, and the time required will usually be three or four years.

Work Done in Other Institutions. Graduate work done in residence at another institution, prior to enrolment in Brown University, and not used in fulfilment of the requirements for the degree of Doctor of Philosophy elsewhere, may be offered in partial fulfilment of the requirements for the degree, provided it shall have the approval of the Dean of the Graduate Department and the professors in charge of the major and minor subjects, but in no case shall the degree be granted to a candidate who has not completed a continuous year of work (other than work on his thesis) at Brown University.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PUBLIC HEALTH. The purpose of the course leading to this degree is to fit students for administrative and research work in connection with the public health service. The general requirements for candidacy and for the granting of the degree are the same as for the degree of Doctor of Philosophy. The major subject must be in the Department of Biology.

THE SCHOOL OF EDUCATION‡

ADMISSION TO CANDIDACY FOR THE DEGREE OF BACHELOR OF EDUCATION. To be admitted as a candidate for the degree of Bachelor of Education, an applicant must have been graduated from an approved normal school that requires two years of professional and academic study, and must satisfy the University's entrance requirements for the degree of Bachelor of Arts or Bachelor of Philosophy, either by presenting an entrance certificate or by passing examinations in the required subjects (see pages 30–52). In addition the applicant must present: (1) an official record of his or her preparatory school course; (2) an official record of his or her normal school course; (3) a marked catalogue of the normal school, describing the course of study; (4) a diploma or certificate of graduation from the normal school; and (5) a letter of special recommendation from the principal of the normal school.

Graduates of approved normal schools who present satisfactory evidence of at least two years' successful experience in teaching will be admitted as candidates for the degree of Bachelor of Education without examination; but if later, because of failure in college studies, their preparation is deemed insufficient, they will be required to pass examinations in any or all of the subjects required for entrance. Such candidates must present all the credentials listed above, except the letter of special recommendation.

The Committee on Registration and Attendance will determine the amount of credit for entrance and advanced subjects to be given to all applicants for

‡ A special circular, *The School of Education*, may be obtained from the Registrar.

admission to the School of Education. Entrance certificates and other credentials should be sent to the Registrar of the University; applications for entrance examinations should be filed with the Registrar on or before August 1, if possible.

ADMISSION OF SPECIAL STUDENTS. Mature persons of good character, who desire to pursue special subjects and who have had the requisite preliminary training, are allowed to enter the various courses of study in the School of Education without becoming candidates for a degree.

Applicants for registration as special students must present to the Registrar of the University (if men), or to the Dean of the Women's College (if women), on or before August 1, if possible, a certified and detailed statement of the nature and extent of their preparatory work, including testimonials of character and ability. If a student has attended more than one institution, credentials must be presented from each of them. Applicants must satisfy the Committee on Registration and Attendance, by passing the entrance examinations or presenting certificates, that they are qualified to pursue the courses desired.

Special students must take fifteen hours of class-room work a week unless satisfactory reasons for a smaller assignment are presented at the time of registration.

ADMISSION OF GRADUATE STUDENTS. Persons who are eligible for admission to the Graduate Department of the University may be admitted to the School of Education as graduate students. Graduate students in the School of Education will be registered also in the Graduate Department of the University, and will be subject to the regulations, conditions, and requirements of that department (see pages 69–71).

REGISTRATION AND ENROLMENT. The regulations governing the registration and enrolment of students in the other undergraduate departments of the University (see page 54) apply to students in the School of Education. Women students will present themselves for registration and enrolment at the office of the Registrar of the Women's College, in Pembroke Hall.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF EDUCATION. All candidates for the degree of Bachelor of Education are required to complete a course of fifteen hours of class-room work a week, for each of two years, as follows:

First Year.

English 1, 2. Three hours, unless the student is excused on evidence of proficiency in English composition.

Physical or *Natural Science*, or *Mathematics*. Three hours.

Two subjects from the following group: *Ancient* or *Modern Literature; History; Economics*, and *Social Science* or *Political Science*. Six hours.

One free elective, or two free electives if the student is excused from English 1, 2. Three hours.

Second Year.

Education. Three hours.

Philosophy. Three hours.

The subject in the first-year group (*Literature, History, Economics*) not taken in the first year. Three hours.

One elective in continuation of a subject taken in the first year. Three hours.

One free elective. Three hours.

Persons who take the degree of Bachelor of Education in Brown University may obtain the degree of Bachelor of Arts or Bachelor of Philosophy by an additional year's work that satisfies the requirements for the degree chosen.

The fees for men undergraduates in the School of Education are the same as those for other undergraduates specified under the heading "New University Fees" on pages 173, 174. The fees for women are the same as for other undergraduate women. All charges for the semester, including room rent, board, and laboratory fees, if any, must be paid in advance at registration for each semester. Candidates for graduation in any year must pay all graduation fees at the beginning of the second semester of that year.

The rules concerning attendance, standing, and examinations (see pages 66–68) apply to undergraduates in the School of Education.

COURSES OF INSTRUCTION

WHEN semester courses are grouped in one paragraph (e.g. Biology 1, 2), they constitute a year course and neither semester may be elected independently unless specific statement to the contrary is made. In starred courses a final mark covering the work of the course as a whole is given at the end of the course, the mark given at the end of the first semester being regarded as temporary. When the time of meeting is not announced, it will be arranged by the instructor at the beginning of the semester. Courses marked with ¶¶ were announced but not given in 1917–18.

I. ART‡

FRANCIS GREENLEAF ALLINSON, PH.D.,† *David Benedict Professor of Greek Literature and History, Director of the Museum of Fine Arts*

JOHN SHAPLEY, PH.D., *Instructor in Art*

11, 12. *General History of Art*

A comprehensive introduction to the subject. Lectures, reading, reports. *Dr.* SHAPLEY.

Three hours. Through the year. Elective for Undergraduates. Either semester may be elected independently. *Mon., Wed., Fri., at 10.20.*

13. *Greek Sculpture*

A study of its origin and development. Lectures, reading, reports. *Dr.* SHAPLEY.

Three hours. First semester. Elective for Seniors and Graduates, and for others who have credit for or are taking 11.

14. *Italian Renaissance Painting*

A brief consideration of the principal schools and masters and of the culture on which the art of the time was based. Lectures, reading, reports. *Dr.* SHAPLEY.

Three hours. Second semester. Elective for Seniors and Graduates, and for others who have credit for or are taking 12.

15,* 16.* *Freehand Drawing*

Training of hand and eye by study in charcoal and pencil of casts and still-life objects.

‡ For arrangements with the Rhode Island School of Design, see page 165.
† On leave of absence during the first semester, 1917–18.

One hour. Two hours of drawing. Through the year. Elective for Undergraduates. Given at the Rhode Island School of Design. Hours to be arranged with the Director of the School of Design.

17,* 18.* *Advanced Drawing*

Three hours. Six hours of drawing, or four hours of drawing and one hour lecture on Historic Ornament. Through the year. Elective for students who have credit for or are taking 11, 12, and who have credit for 15, 16. Given at the Rhode Island School of Design. *Mon., Tu., Wed., at 2.* Lecture hour to be arranged with the Director of the School of Design.

19. *Museum Methods*

General purpose, arrangement, and management. *Dr.* SHAPLEY, *with the aid of special lecturers.*

Three hours. First semester. Elective for students who have credit for or are taking 13.

20. *Museum Material*

Detailed classification, analysis, and publication. *Dr.* SHAPLEY, *with the aid of special lecturers.*

Three hours. Second semester. Elective for students who have credit for or are taking 14.

21, 22. *Art Seminary*

Research work arranged to meet the needs of individual students. *Dr.* SHAPLEY.

Three to twelve hours. Through the year. Elective for Graduates and approved Undergraduates.

II. ASTRONOMY

ROLAND GEORGE DWIGHT RICHARDSON, PH.D., *Professor of Pure Mathematics, Acting Director of the Ladd Observatory*

CLINTON HARVEY CURRIER, A.M., *Assistant Professor of Mathematics*

THEODORE HENRY BROWN, PH.D., *Instructor in Mathematics*

1, 2. *Descriptive Astronomy*

A general introduction to the subject, dealing with (1) the fundamental conceptions of the celestial sphere; (2) the solar system, including the sun and planets with their satellites, the comets, and

meteors; (3) the stars and nebulae. Lectures, supplemented by visits to the Ladd Observatory. *Professor* CURRIER.

Three hours. Through the year. Elective for candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who have credit for or are taking Plane Trigonometry. *Mon., Wed., Fri., at 10.20.*

5. *Field Astronomy*

The astronomical problems of geodesy: azimuth, time, latitude, longitude. Computations and observations. *Dr.* BROWN.

Four hours. First semester. Required of candidates for the degree of Bachelor of Science in Civil Engineering. Elective for Undergraduates who have credit for Mathematics 16. *Mon., Tu., Th., Fri., at 2.* Observations at the Ladd Observatory.

[7, 8. *Advanced Astronomy*]

Three hours. Through the year. Elective for approved students. Not offered in 1917–18.

III. BIBLICAL LITERATURE AND HISTORY‡§

HENRY THATCHER FOWLER, PH.D., *Professor of Biblical Literature and History*

MARION EMMETT BRATCHER, PH.D., *Lecturer in Biblical Literature and History*

LANGUAGES

1, 2. *Elementary Hebrew*

Grammar; exercises in writing Hebrew; translation of parts of Genesis. *Dr.* BRATCHER.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

3, 4. *Historical Hebrew*

Reading of Genesis, Samuel, and Kings with special attention to the acquisition of a vocabulary; review of the elements of Hebrew grammar and study of syntax. *Professor* FOWLER.

Three hours. Through the year. Elective for students who have credit for 1, 2.

‡ For conditions under which students may receive credit in the Newton Theological Institution for work done in this department, see pages 165, 166.

§ For courses for the training of leaders in Religious Education, see pages 152, 153.

5, 6. ¶¶ *Hebrew Literature*

Critical translation and study of the characteristics and development of some one of the great divisions of Hebrew literature — Psalm, Wisdom, Legal, or Prophetic.

Three hours. Through the year. Offered if applied for by students who have credit for 3, 4.

7. ¶¶ *Textual Criticism of the Old Testament*

The principles and method of textual criticism, in connection with the study of one of the shorter prophetic books.

Three hours. One semester. Offered if applied for by students who have credit for 3, 4.

[8. *Biblical Aramaic*]

Grammar and reading of the Aramaic portions of the Old Testament.

Three hours. One semester. Elective for students who have credit for 3, 4. Not offered in 1917–18.

[9, 10. *Elementary Arabic*]

Grammar; exercises in writing Arabic; translation of prose selections.

Three hours. Through the year. Elective for Seniors and Graduates. Not offered in 1917–18.

11, 12. *Gospels and Epistles*

Characteristics of Hellenistic Greek; translation, and investigation of date, authorship, and thought. First semester: the Gospel and Epistles of John, the Gospel of Mark. Second semester: the Gospels of Matthew and Luke. *Professor* Fowler.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Either semester may be elected independently. *Tu., Th., Sat., at 10.20.*

[13, 14. *Acts and Pauline Epistles*]

First semester, Acts and Thessalonians. Second semester, Galatians, Corinthians, and Romans.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1917–18.

[23, 24. *Alexandrian Jewish Literature*]

Translation from the Septuagint, Wisdom of Solomon, and writings of Philo.

Three hours. Through the year. Elective for Graduates and approved Undergraduates. Not offered in 1917–18.

25, 26. ¶¶ *Elementary Syriac*

Readings from the New Testament and from selected Syriac writers with a gradual presentation of the grammar in its simplest form.

Three hours. Through the year. Elective for Graduates.

31. *Special Course*

Translation of the books of the New Testament not read in Courses 11–14; investigation of date, authorship, and thought.

Three hours. First semester. Elective for Graduates and approved Seniors.

LITERATURE AND HISTORY IN ENGLISH

[15, 16. *Old Testament Literature and History*]

Includes nearly the entire Old Testament literature and history. Emphasis placed upon the connection between the literature and the history. With 17, 18 gives a comprehensive view of Biblical literature and history. The books are read in the best English translations. First semester: early Semitic history; Hebrew literature and history to the close of the United Kingdom. Second semester: Hebrew and Jewish literature and history from the division of the kingdom to the conquest of Alexander.

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and Graduates. Either semester may be elected independently. Not offered in 1917–18.

17, 18. *New Testament Literature and History*

Includes a large part of the Jewish writings from the conquest of Alexander to the destruction of Jerusalem, and the entire New Testament studied in its Jewish setting. Emphasis placed upon the connection between the literature and the history. With 15, 16 gives a comprehensive view of Biblical literature and history. The books are read in the best English translations. First semester: Jewish literature and history from the beginning of the Greek period to the destruction of Jerusalem; the Gospels and other sources for the life of Christ. Second semester: outline of the life of Christ; literature and history of the Apostolic Age. *Professor* FOWLER.

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and Graduates. Either semester may be elected independently. *Mon., Wed., Fri., at 10.20.*

21,* 22.* *Biblical Seminary*

Subject for 1917–18: The Teachings of Jesus. Critical examination of the content of the teachings in the earliest sources; individual investigation of the teachings upon particular themes. *Professor* FOWLER.

Three hours. Through the year. Elective for Graduates and approved Juniors and Seniors.

27.¶¶ *The Origin and Growth of the Hebrew Religion*

A survey of the history of the Hebrew religion in its relation to primitive Semitic ideas and to the course of Israel's political and social development from the federation of tribes at Sinai to the beginning of the Christian era. Traces the rise and development of the ethical monotheism which lies at the basis of modern Judaism, Mohammedanism, and Christianity. *Dr.* BRATCHER.

Three hours. First semester. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 10.20.*

28. *Social Teachings of the Prophets and Jesus*

Historical study of the principles underlying the social teachings of the Hebrew prophets and sages, and their interpretation in modern terms; Jesus' conception of the ideal social order, and the means by which it is to be established. *Dr.* BRATCHER.

Three hours. Second semester. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 10.20.*

30. *History of Religion*

An outline study of the history of the principal religions of the world. This course is the same as Philosophy 30. *Professors* FOWLER *and* JONES.

Three hours. Second semester. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 11.20.*

IV. BIOLOGY

Albert Davis Mead, Ph.D., Sc.D., *Professor of Biology*
Frederic Poole Gorham, A.M., *Professor of Bacteriology*
Herbert Eugene Walter, Ph.D., *Associate Professor of Biology*
Philip Henry Mitchell, Ph.D., *Assistant Professor of Physiology*
John Burnham Ferguson, A.B., M.D., *Demonstrator in Anatomy*

1, 2. *General Biology*

The structure of animals and plants; elementary vital phenomena; the functions of organs; the development of organisms; classification. An outline of the more important biological theories, such as evolution, natural selection, variation, mutation, and heredity; the principles upon which modern hygiene and sanitation are based, with lectures on personal hygiene and care of the body, the causes, methods of transmission, and prevention of communicable diseases, camp sanitation, water supply, and refuse disposal. The course will introduce the student to the use of the microscope, laboratory technic, and scientific methods of observation and experiment. *Professor* Gorham.

Three hours. Six hours of attendance. Through the year. Required in the Freshman or Sophomore year of candidates for the degree of Bachelor of Philosophy.‡ Elective for Undergraduates. Lectures, *Mon., Th., Fri., at 3.* Laboratory, *1st division, Mon., Th., Fri., at 2; 2d division, Tu., Th., Sat., at 12.20.* Laboratory fee, $4.50 a semester.

3, 4. *Comparative Anatomy of Vertebrates*

The structure and significance of the various organs of vertebrates with particular reference to man. Intended not only for general students, but also for those who are particularly interested in zoölogy and for those who expect to study medicine. Students are permitted to attend clinics and autopsies at the Rhode Island Hospital. Laboratory work and lectures. *Professor* Walter.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors who have credit for 1, 2. *Mon., Wed., Fri., at 8.* Laboratory fee, $4.50 a semester.

[5, 6. *Anatomy of the Nervous System*]

A study of the gross and microscopic anatomy of the brain, nerves, and sense organs in man and other vertebrates. Designed particularly for those intending to study medicine or psychology.

‡ Botany 20 may be substituted for Biology 2. See page 85.

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for 1, 2. By written consent of the department this course may be elected for six hours. Laboratory fee, $4.50 a semester. Not offered in 1917–18.

7, 8. *Embryology and Histology*

The origin of the individual and the developmental process from the egg to the adult; the material basis of heredity; the composition of the body and its organs in terms of their vital units, the cells. Practice in micro-technic. Adapted to the needs of general students and of those intending to study medicine. *Professor* MEAD.

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for 1, 2. *Tu., Th., Sat., at 8.* By written consent of the department this course may be elected for six hours. Laboratory fee, $4.50 a semester.

9, 10. *Advanced Histology and Pathology*

Work in micro-technic and in normal and pathological histology. Adapted to individual needs. *Professor* MEAD.

Three hours. Six hours of attendance. Through the year. Elective for Juniors, Seniors, and Graduates who have credit for 1, 2, and 7, 8. By written consent of the department this course may be elected for six hours. Laboratory fee, $4.50 a semester.

12. *General Physiology*

General vital processes in plants and animals; the more special phenomena in higher animals, with their bearing on human physiology. Designed not only as an introduction to further work, but also as a general view of physiology. Lectures and laboratory work. *Professor* MITCHELL.

Three hours. Six hours of attendance. Second semester. Must be preceded by 1, 2 and Chemistry 1, 2. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Mon., Wed., Fri., at 11.20.* Laboratory fee, $4.50 a semester.

13, 14. *Chemical Physiology*

The chemistry of proteins, carbohydrates, and fats; the physiology of the digestive system, with the study of secretions and of artificial salivary, gastric, and pancreatic digestions; examination of blood, bile, and urine; the analysis of foods, particularly milk. Designed for those who are interested in physiology either from a medical or

a general standpoint, and for those who are specializing in chemistry and desire a knowledge of vital chemical processes. *Professor* MITCHELL.

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for or are taking Chemistry 7, 8. *Tu., Th., Sat., at 10.20.* By written consent of the department this course may be elected for six hours. Laboratory fee, $4.50 a semester.

15. *Invertebrate Zoölogy*

A study of the natural history of invertebrate animals, particularly marine forms, insects, and protozoa. Lectures with laboratory and field work. *Professor* WALTER.

Three hours. Six hours of attendance. First semester. Elective for Undergraduates who have credit for 1, 2. Laboratory fee, $4.50.

46. *Natural History*

A continuation of 15, including a study of birds during the spring migration. Lectures with laboratory and field work. *Professor* WALTER.

Three hours. Six hours of attendance. Second semester. Elective for Undergraduates who have credit for 1, 2. *Tu., Th., Sat., at 8.* Laboratory fee, $4.50.

16. *Bacteriology*

A general discussion of bacteria in all their relations, with special attention in the laboratory to the methods of studying bacteria, including the isolation and determination of unknown species. Lectures and laboratory work. *Professor* GORHAM.

Three hours. Six hours of attendance. Second semester. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Mon., Wed., Fri., at 10.20.* Laboratory fee, $4.50.

17, 18. *Advanced Bacteriology*

Practical work in the qualitative and quantitative biological examination of water, milk, air, soil, and sewage; study of the more common pathogenic organisms, with the determination of their pathogenic properties, and the methods of bacteriological diagnosis of disease. Laboratory work and seminary. *Professor* GORHAM.

Three hours. Six hours of attendance. Through the year. Elective for Juniors, Seniors, and Graduates who have credit for 16. By written consent of the department this course may be elected for six hours. Laboratory fee, $4.50 a semester.

22. *Evolution*

The history of biology, principles of classification, geographical distribution, heredity, natural selection, variation, Mendelism, and the relationship of man to the lower animals. Designed more particularly for those who have not studied biology. Lectures and assigned reading. *Professor* MEAD.

Three hours. Second semester. Elective for Juniors and Seniors. *Tu., Th., Sat., at 11.20.*

33, 34. *Biological Research*

Research work arranged to meet the needs of individual students. *Professors* MEAD *and* WALTER.

Three to twelve hours. Through the year. Elective for Graduates.

35, 36. *Advanced Physiology*

General physiology of the cell; fundamental chemical and physico-chemical reactions of life; physiology of the muscular, nervous, and circulating systems; nutrition, chemistry of food, metabolism, dietetics. Laboratory work and seminary. *Professor* MITCHELL.

Three hours. Through the year. Elective for Seniors and Graduates who have sufficient knowledge of chemistry and physiology. Laboratory fee, $4.50 a semester.

37, 38. *Bacteriological Research*

Research work arranged to meet the needs of individual students. *Professor* GORHAM.

Three to twelve hours. Through the year. Elective for Graduates who have credit for 16 and 17, 18.

39, 40. *Biological Theories and Problems*

Seminary course. *Professor* MEAD.

One to three hours. Through the year. Elective for Graduates.

41, 42. ¶¶ *Zoölogical Seminary*

Reading and discussion of German zoölogical literature selected with reference to the needs of individual students. *Professor* WALTER.

One to three hours. Through the year. Elective for Graduates.

43, 44. *Physiological Research*

Research work arranged to meet the needs of individual students. *Professor* MITCHELL.

Three to twelve hours. Through the year. Elective for Graduates.

V. BOTANY

HARLAN HARVEY YORK, PH.D., *Assistant Professor of Botany*
JAMES FRANKLIN COLLINS, PH.B., *Demonstrator in Botany*
HENRY FRANKLIN BAIN, A.B., *Assistant in Botany*

20. *Elementary Botany*

Designed to give a general knowledge of how plants live; their structure; their relation to each other and to our own daily life; the origin of new kinds of plants; their improvement by man, *i.e.*, by selection, breeding, budding, and grafting; inheritance and evolution. The laboratory work includes a study of the structure of a flowering plant, experiments relative to its life processes, and field trips.

Three hours. Six hours of attendance. Second semester. May be taken in the Freshman or Sophomore year in place of Biology 2 in partial fulfilment of the requirement in biology for the degree of Bachelor of Philosophy. Elective for others by permission. Lectures, *Mon.*, *Th.*, *Fri.*, *at 3*. Laboratory fee, $1.50.

1, 2. *General Course*

Intended not only as a general cultural course, showing the vital importance of botany in modern life, but also as preliminary training for those who contemplate further work in botany. Includes a survey of the plant kingdom beginning with the lower forms, including origin, development, morphology, anatomy, physiology, and ecology of plants.

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates. Lectures, *Mon.*, *Wed.*, *at 8*. Laboratory, *Mon.*, *Tu.*, *2 to 4*. Laboratory fee, $1.50 a semester.

3, 4. *Physiological Anatomy*

Intended for students who expect to study medicine, agriculture, forestry, or plant pathology, as well as for those who expect to teach or pursue further work in botany. The origin, minute structure, and physiological function of plant tissues; reproduction, cytology; methods in micro-technic. The biological purpose of this course is to help

the student to understand how plants, by the differentiation of cells and their association into tissues adapted to perform different kinds of work, are able to meet the conditions of their environment.

Three hours. Six hours of attendance. Through the year. Elective for students who have credit for 1, 2, or its equivalent. By written consent of the department this course may be elected for six hours. Laboratory fee, $4.50 a semester for each three hours of credit.

[5, 6. *Comparative Morphology and Phylogeny*]

Designed not only for general students, but for those who expect to teach, and for those who are particularly interested in botany. Presents a wide range of scientific methods in plant biology, a comprehensive knowledge of plant forms, and the more fundamental conclusions of morphology and phylogeny; methods in micro-technic.

Three hours. Six hours of attendance. Through the year. Elective for students who have credit for 1, 2, or its equivalent. Laboratory fee, $4.50 a semester. Not offered in 1917–18.

7, 8.¶¶ *Special Course*

Special work on topics selected to meet the needs of individual students. May be taken for two or more years.

Three hours. Through the year. Either semester may be elected independently. Elective for Graduates and approved Juniors and Seniors. By written consent of the department this course may be elected for six or nine hours. Students electing this course must make arrangements with the instructor before June 1 of the year preceding that in which they wish to take the course. Laboratory fee varies according to the work taken.

[9. *Diseases of Plants*]

Treats one of the fundamental relations of botany to man's welfare. An introduction to the nature, causes, and remedies of diseases of plants. Lectures and demonstrations.

One hour. Two hours of attendance. First semester. Elective for Undergraduates. Not offered in 1917–18.

[10. *Trees*]

Intended to familiarize the student with the common native and introduced trees of Rhode Island. Special attention will be given to their structure and economic value. Lectures and field work.

One hour. Two hours of attendance. Second semester. Elective for Undergraduates. Not offered in 1917–18.

11, 12. *Physiology*

Includes a study of imbibition, diffusion, osmosis, turgor, and the retention of bodily form; relation of soil and solutes to the plant; transpiration and exudation; movement of materials within the plant body; photosynthesis; respiration; growth and movement; reproduction and death.

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for 1, 2 and either 3, 4, or 5, 6, and for Graduates. By written consent of the department this course may be elected for six hours. Laboratory fee, $4.50 a semester for each three hours of credit.

13, 14. *Plant Pathology*

A general course, including the identification of bacteria and fungi which cause diseases in our more common cultivated and native plants and native and introduced trees; their manner of infection and effects on their hosts, methods of prevention and control, and methods of culture and inoculation which are employed in the laboratory in the study of diseases of plants.

Six hours. Twelve hours of attendance. Through the year. Elective for students who have credit for 1, 2 and either 3, 4, or 5, 6. By written consent of the department this course may be elected for three hours. Laboratory fee, $4.50 a semester for each three hours of credit.

VI. CHEMISTRY‡

JOHN EMERY BUCHER, PH.D., *Newport-Rogers Professor of Chemistry*
ROBERT FOSTER CHAMBERS, PH.D., *Assistant Professor of Chemistry*
SAMUEL TOMLINSON ARNOLD, PH.D., *Instructor in Chemistry*
ARTHUR EARL BARNARD, SC.M., A.M., *Assistant in Chemistry*
HENRY WEEDEN UNDERWOOD, JR., PH.B., SC.M., *Assistant in Chemistry*

1, 2. *Descriptive Chemistry* §

Non-metals; metals, their metallurgy, compounds, and practical applications; theoretical chemistry. Lectures with experiments; writ-

‡ Courses 1–4, 7, 8, and 15, 16 are designed to give a thorough general introduction to chemistry to serve as a foundation for teaching chemistry, or for advanced study in medicine, bacteriology, botany, and chemistry. Course 9 is offered for those who intend to follow sanitary work.

§ Credit for the entrance requirement in Chemistry admits only to 1, 2, which may be taken also without previous preparation. Students who wish to enter more advanced courses without taking 1, 2 must pass a special test at the time of the entrance examination in Chemistry. This test will cover the following topics: 1. All of the non-metals

ten exercises; laboratory work. *Professor* CHAMBERS *and Mr.* UNDERWOOD.

Three hours. Through the year. Elective for Undergraduates. *1st division, Mon., Wed., at 10.20; 2d division, Tu., Th., at 10.20.* Laboratory fee, $4.50 a semester.

3, 4. *Qualitative and Quantitative Analysis*

Properties of the metallic elements; their separation from certain of their compounds. The principal non-metals and the acids formed by them; methods of separation and recognition of acids and acid radicals. Quantitative precipitations and separations of the most important elements and compounds; the principles upon which quantitative apparatus is constructed. Laboratory work; recitations in qualitative analysis and in chemical theory; exercises in stoichiometry. *Dr.* ARNOLD.

Three hours. Six hours of attendance. Through the year. Elective for students who have credit for 1, 2. *1st division, Fri. at 11.20; 2d division, Sat. at 10.20.* Laboratory fee, $7.50 a semester.

5, 6. *Quantitative Analysis, Advanced Course*

Acidimetry and alkalimetry; analysis of pure chemical compounds, minerals, ores, slags, alloys, limestone, iron, and steel; analysis of organic compounds; examination of agricultural products, testing of chemicals used in textile establishments, gas analysis, etc. *Dr.* ARNOLD.

Six hours. Twelve hours of attendance. Through the year. Elective for Juniors, Seniors, and Graduates who have credit for 3, 4. Laboratory fee, $7.50 a semester.

7, 8. *Organic Chemistry*

Preparation and analysis of representative organic compounds. Lectures, recitations, and laboratory work. *Professor* CHAMBERS *and Mr.* BARNARD.

Six hours. Through the year. Elective for approved Juniors, Seniors, and Graduates who have credit for 3, 4. By written consent of the department 8

with their principal compounds and the processes of manufacture of the chief commercial products from non-metals. 2. About thirty important metals, their occurrence, preparation from the ore, the preparation and uses of their chief compounds. 3. The general principles of chemical action which depend upon physical laws. 4. Methods of making chemical computations of moderate difficulty. Preparation for this test may require the equivalent of six hours a week for one school year.

may be elected for three hours (8 *a*). *Mon., Wed., Fri., at 9.20.* Laboratory fee for course 7, $7.50; for course 8, $12.50; for course 8*a*, $3.75.

9. *Sanitary Chemistry*

Qualitative and quantitative examination of air, water, food and food adulterants, flour, bread, milk, butter, etc. Also the analysis of sewage and effluents. Lectures, recitations, and laboratory work. *Dr.* ARNOLD.

Three hours. First semester. Elective for students who have credit for 1–4 and 7, 8. Laboratory fee, $7.50.

10. *Assaying*

Professor BUCHER.

Three hours. Six hours of attendance. Second semester. Elective for Seniors and Graduates who have credit for 1–6. Laboratory fee, $7.50.

12. *Organic Dyes*

The chemistry and use of mordants, dyes, etc. *Professor* BUCHER.

Three hours. Six hours of attendance. Second semester. Elective for approved Seniors and Graduates. Laboratory fee, $7.50.

13, 14.¶¶ *Industrial Chemistry*

Lectures and laboratory work. *Professor* BUCHER.

Three hours. Six hours of attendance. Through the year. Elective for approved Graduates. By written consent of the department this course may be elected for six or nine hours. Laboratory fee, $7.50 a semester.

15, 16. *Physical Chemistry*

Lectures and laboratory work. *Professor* BUCHER.

Three hours. Through the year. Elective for approved Juniors, Seniors, and Graduates. Laboratory fee, $2.50 a semester.

[17, 18. *Physical Chemistry, Advanced Course*]

Lectures and laboratory work.

Three hours. Through the year. Elective for approved Graduates who have credit for Physics 1–4, and have credit for or are taking Mathematics 7, 8. Laboratory fee, $2.50 a semester. Not offered in 1917–18.

[19. *Organic Chemistry, Advanced Course*]

Three hours. First semester. Elective for approved Graduates. Not offered in 1917–18.

[20. *Inorganic Chemistry, Advanced Course*]

Three hours. Second semester. Elective for approved Juniors, Seniors, and Graduates. Not offered in 1917–18.

21, 22. *Organic Preparations, Advanced Course*

Professors BUCHER *and* CHAMBERS, *Mr.* BARNARD.

Three hours. Through the year. Elective for approved Juniors, Seniors, and Graduates who have credit for 7, 8. By written consent of the department this course may be elected for six or nine hours. Laboratory fee, $7.50 a semester for each three hours of credit.

23, 24. ¶¶ *Inorganic Preparations, Advanced Course*

Professors BUCHER *and* CHAMBERS, *Mr.* BARNARD.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. By written consent of the department this course may be elected for six or nine hours. Laboratory fee, $7.50 a semester for each three hours of credit.

25, 26. ¶¶ *Research Work in Chemistry*

Professor BUCHER.

Three or more hours. Through the year. Elective for Graduates. Laboratory fee, $7.50 a semester for each three hours of credit.

27, 28. ¶¶ *Conference on Special Topics in Chemistry*

Professor BUCHER.

One hour. Through the year. Elective for approved students.

29, 30. ¶¶ *Industrial Chemistry and Research*

Professor BUCHER.

Three or more hours. Through the year. Elective for approved Graduates. Laboratory fee, $7.50 a semester for each three hours of credit.

32. *Industrial Analysis*

Analysis of commercial products. Lectures, recitations, and laboratory work. *Dr.* ARNOLD.

Three hours. Second semester. Elective for students who have credit for 1–8 and 15, 16. Laboratory fee, $7.50.

VII. ECONOMICS ‡

HENRY BRAYTON GARDNER, PH.D., *Professor of Economics*
ALVIN HARVEY HANSEN, A.M., *Instructor in Economics*
MARTIN JOSEPH SHUGRUE, A.B., *Lecturer in Economics*

1. *Elementary Economics*

An outline and discussion of the fundamental principles of the subject. *Professor* GARDNER *and Mr.* HANSEN.

Three hours. First semester or second semester. Students must indicate on their registration cards the semester in which they wish to take the course. Required with Social and Political Science 1 in the Sophomore, Junior, or Senior year of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy, and in the Sophomore year of candidates for the degree of Bachelor of Science.§ First semester, *Tu., Th., Sat., at 10.20.* Second semester, *Mon., Wed., Fri., at 12.20.*

3. *International Trade*

The conditions which govern international trade; the principle of comparative costs; historical sketch of the development of international trade; the movement of international trade at the present time; the relation between international investment and international credit and international trade; the mercantile marine; the mechanism for handling international trade. *Professor* GARDNER.

Three hours. First semester. *Tu., Th., Sat., at 12.20.*

5, 6. *Money and Banking*

Principles of money; recent monetary history, particularly of the United States; systems of the leading industrial nations; present problems. Principles of banking; recent banking history, particularly of the United States; the Federal Reserve system; systems of the leading industrial nations; present problems. *Professor* GARDNER.

Three hours. Through the year. *Tu., Th., Sat., at 11.20.*

7. *Problems of Labor and Industry*

An analysis of the economic and social effects of modern methods of

‡ The courses in this department other than 1 are open only to students who have credit for Economics 1 and Social and Political Science 1.

Students who intend to take Economics 3 or 15 will find it to their advantage to take Geology 1 and 6 as an introductory course.

Course 17 is equivalent to 14 offered in previous years, and is not open to students who have had 14.

§ See pages 59–63.

production; the rise of the trade union and the influence of collective bargaining; the organization of industry; scientific management, profit sharing, legal minimum wage, social insurance, and other modern movements to secure industrial efficiency and a more equitable distribution of wealth. *Mr.* HANSEN.

Three hours. First semester. *Mon., Wed., Fri., at 11.20.*

8. *Socialism and Allied Movements*

Criticism of the present industrial order; brief review of the historically important socialistic schemes; an analysis and criticism of the leading socialistic theories with special reference to present-day proposals; communism, syndicalism, and land nationalization as agencies for economic reform. *Mr.* HANSEN.

Three hours. Second semester. *Mon., Wed., Fri., at 11.20.*

9. *Tariff, Reciprocity, and Shipping Subsidies*

The development of the American system of protection and its effect upon domestic industry and international commerce; an analysis and criticism of arguments for protective tariff and for free trade; reciprocity agreements; policies of leading nations with regard to state aid to shipping. *Professor* GARDNER.

Three hours. Second semester. *Tu., Th., Sat., at 12.20.*

[11, 12. *Public Finance and Financial History*]

General principles of public finance; revenues and expenditures of leading industrial nations; public enterprises in their financial aspects; principal forms of taxation and their effects; public debts. Special attention will be given to the financial history of the United States from the adoption of the Constitution to the present day.

Three hours. Through the year. Not offered in 1917–18.

[13. *Statistics*]

The principles of statistics as a method of recording and presenting social and economic facts; the possibilities and limitations of the statistical method; the interpretation of statistics; some of the important results of statistical investigation.

Three hours. First semester. Not offered in 1917–18.

15. *Trade and Transportation in the United States*

General history of the industrial development of the United States

with special reference to the geographical distribution of industries and the development of means of transportation; the determination of transportation rates and the public control of transportation agencies; the development of the marketing mechanism. *Mr.* HANSEN.

Three hours. Second semester. *Mon., Wed., Fri., at 10.20.*

16. *Corporations and Corporation Finance*

The corporation as a form of business organization; its formation and promotion; capitalization; forms of securities; the stock market; state and federal control and similar topics. *Mr.* HANSEN.

Three hours. First semester. *Mon., Wed., Fri., at 10.20.*

17, 18. *Accounting*

The importance of accounting in commerce and industry; the principles of recording business transactions and values as applied to firms, private and public service corporations, and fiduciaries; cost accounts and the interpretation of financial statements. *Professor* SHUGRUE.

Three hours. Two or three hours of attendance. *Tu. at 4.15; Fri. at 8.*

21, 22. *Investigation of Special Topics*

Intended to afford training in methods of gathering, handling, and presenting data in the study of economic life and problems. Each student is assigned a separate topic. *Professor* GARDNER *and Mr.* HANSEN.

Three hours. Six hours of attendance. Through the year. Either semester may be elected independently. Students intending to take either of these courses must secure the permission of the head of the department not later than December 1 or June 1 in the semester preceding that in which they desire to take the course. It is expected that these courses will be taken in connection with lecture courses.

23, 24. *Economic Seminary*

Study of important aspects of economic theory, history, and current problems of economic life. *Professor* GARDNER *and Mr.* HANSEN.

Three hours. Two hours of attendance. Through the year. Elective for Seniors and Graduates who have taken advanced work in Economics.

VIII. EDUCATION‡

WALTER BALLOU JACOBS, A.M., *Professor of Education, Director of University Extension*

STEPHEN SHELDON COLVIN, PH.D., *Professor of Educational Psychology*

2. *Principles of Education*

The meaning and scope of education; its function as a social institution; a comprehensive view of the problems of education as they appear to-day and an evaluation of the solutions offered. *Professor* JACOBS.

Three hours. First semester. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 12.20.*

4. *Practical Introduction to Teaching*

The elements of method and their application in practice teaching; observation of good teaching; management and discipline of classes. *Professor* JACOBS.

Three hours. Second semester. Elective for students who have credit for *2*. *Mon., Wed., Fri., at 12.20.*

1. *History of Education*

Education among the early culture peoples; development of education in Greece and Rome; early Christian education; the Renaissance and humanism; the beginnings of modern education; the naturalistic movement, Rousseau; the psychological movement, Pestalozzi, Froebel, Herbart; the scientific movement, Spencer and Huxley; education in the United States; recent sociological tendencies; the movement for industrial education. The aim of the course is to make intelligible the present. *Professor* JACOBS.

Three hours. Two hours of attendance. Second semester. Elective for Juniors, Seniors, and Graduates. *Th., 3 to 5.*

3. *Psychology of Education, The Learning Process*

A discussion of the original endowment of human beings and of the fundamental laws of learning. Instinct, the laws of habit-formation,

‡ Those who intend to teach are advised to elect courses 2 and 1 during the Junior year.

Courses 1-4 cover the usual requirements for Certificates of the First Grade except where practice teaching or experience is demanded. In Rhode Island a certificate is required of all teachers in schools supported in whole or in part by public money. Certificates of the First Grade are granted without examination to those who have completed courses 1-4 and hold a college degree. Due credit toward the certificate is also given for separate courses. Course 18 will be accepted in place of course 4.

For further explanation of the work of this department, see page 166.

and the characteristics of the curve of learning. Class and individual experiments are an essential part of the course. *Professor* Colvin.

Three hours. First semester. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 10.20.*

18. *Psychology of Education, Mental Tests and Measurements*

A continuation of 3. A description and criticism of mental tests and scales for measuring efficiency in acts of intellectual and motor skill. In connection with the course, each student is required to work out and administer certain tests and report on the results obtained. *Professor* Colvin.

Three hours. Second semester. Elective for Juniors, Seniors, and Graduates who have credit for 3. *Mon., Wed., Fri., at 10.20.*

5. *Secondary Education, Organization and Function*

The place of the high school and academy in the American system of education; the administration of secondary education; its relation to the colleges and universities; meaning and value of the various secondary school studies, and their organization into a curriculum; the social life of the high school and academy; athletics in secondary schools; the reorganization of secondary education; the junior high school. *Professor* Jacobs.

Three hours. Two hours of attendance. First semester. Elective for Graduates and experienced teachers, and for approved Seniors. *Wed., 3.20 to 5.20.*

6. *Secondary Education, Methods and Processes*

Methods of teaching in secondary schools; the resources at the command of the teacher; the selection of subject-matter. The following receive special attention as typical secondary school studies: English, Modern Languages, and Latin; History and Civics, Science, and Mathematics; the Manual Arts; Vocational Studies. *Professor* Jacobs.

Three hours. Two hours of attendance. Second semester. Elective for Graduates and experienced teachers, and for approved Seniors. *Wed., 3.20 to 5.20.*

7, 8. *Problems in Practical Teaching, Secondary Schools*

Practice teaching in the high schools of Providence and of neighboring cities and towns. Observation, reports, and conferences. Designed for those who wish to become instructors in colleges, teachers or principals in secondary schools, or superintendents of schools. The course

is given with the assistance of Supervising Teachers. First semester, *Professor* JACOBS. Second semester, *Professor* COLVIN.

Three hours. Through the year. Elective for Graduates who have credit for elementary courses in Education and are taking 5, 6, and 15, 16. *Fri. at 4*, and at other hours to be arranged.

[9, 10. *Problems in Practical Teaching, Grammar Grades*]

Practice teaching in the Providence Grammar Schools. Observation, reports, and conferences. Designed especially for those who wish to become grade teachers, principals of grammar schools, or superintendents of schools, but also for those who wish to teach in secondary schools. The following studies receive special attention: Arithmetic, Language, History, and Geography.

Three hours. Through the year. Elective for Graduates who have credit for elementary courses in Education and are taking 15, 16, and for approved Seniors. *Mon. at 3*, and at other hours to be arranged. Not offered in 1917–18.

11, 12. *Experimental Education*

A laboratory course in educational psychology. The principal methods which have been used in measuring mental and physical capabilities will be reviewed and discussed. Under guidance the student will work through a number of the most important of these methods in the laboratory. He will also conduct a specific experiment in some phase of experimental education, report on his results from time to time, and finally set these forth in the form of a thesis. *Professor* COLVIN.

Three hours. Through the year. Elective for Graduates and experienced teachers. *Mon., 4 to 6.*

[13, 14. *Administration of Education*]

Control and supervision: boards of education, the superintendent of schools. Types of schools and their organization: types of grading. The teaching force: training, appointment, promotion, salaries, pensions. The pupil: attendance, promotion, retardation, elimination, the course of study. The measurement of educational results: by marks, by comparisons, by standards and scales. The cost of education: sources of revenue, apportionment of funds.

Three hours. Through the year. Two hours of attendance. Elective for Graduates, experienced teachers, principals, and superintendents, and for approved Seniors. Not offered in 1917–18.

15, 16. *Seminary in Education*

Studies in current educational problems. The seminary is conducted in two parts in successive hours. Part A: reviews of the latest books upon education and related subjects, and studies of special problems assigned to individual students for investigation and experiment. Part B: a more intensive study of certain problems of current interest. For 1917–18 the subjects are: First semester: Introduction to Educational Sociology. Second semester: Recent Educational Problems. As subjects are not repeated, the course may be elected for two or more years. *Professor* Jacobs.

Three hours. Two hours of attendance. Through the year. Required of student-teachers. Elective for Graduates and experienced teachers, and for approved Seniors. *Sat., 10.20 to 12.20.*

19, 20. *Experimental Education, Research Course*

Designed for those engaged in major problems of investigation in educational psychology. *Professor* Colvin.

Three hours. Through the year. Attendance by appointment. Elective for Graduates who have credit for 11, 12.

IX. ENGINEERING‡

JOHN EDWARD HILL, C.E.M., Sc.D., *Professor of Civil Engineering*

WILLIAM HERBERT KENERSON, M.E., A.M., *Professor of Mechanical Engineering, Executive Secretary of the Division of Engineering*

ANSEL BROOKS, Ph.B., M.E., *Associate Professor of Mechanics and Mechanical Drawing*

ARTHUR EUGENE WATSON, Ph.D., *Assistant Professor of Electrical Engineering*

HARDY CROSS, A.B., C.E.M., *Assistant Professor of Civil Engineering*

JAMES ALEXANDER HALL, A.B., Sc.B., *Assistant Professor of Mechanical Engineering*

JOSEPH OTIS FULLER, Sc.B., *Instructor in Mechanical Engineering*

ROSS HADLEY, *Assistant in Pattern Making*

HARVEY FISH, *Assistant in Metal Working*

1, 2. *Elements of Engineering*

An introduction to engineering and to methods of solution of engineering problems. Principles of surveying and mechanics, and applications of mathematics. Coördinated with Mathematics 17 A, 18 A. Lectures; recitations; laboratory, field, and drafting-room work. *Professors* KENERSON, HILL, BROOKS, WATSON, *and* HALL, *and Assistants.*

Three hours. Six hours of attendance. Through the year. Elective for students who have taken or are taking Mathematics, including trigonometry.

A. *Military Engineering*

An elementary course intended for those who may enter some branch of military service. Elementary surveying; military map making and reading; topography in its relation to geology; engineering construction. *Professors* HILL, BROWN, *and others.*

Three hours. Six hours of laboratory work, field work, and drafting. First semester. Elective for Undergraduates and Graduates. *Mon., Wed., Fri., at 11.20.*

B. *Military Engineering*

Military construction; bridges, roads, etc.; power equipment for

‡ An outline of the courses required of students who enter in 1917 or thereafter is printed on pages 59, 60. A pamphlet giving fuller information about this course may be obtained from the Registrar.

transportation, aviation, and camp uses. *Professor* KENERSON *and others.*

Three hours. Six hours of laboratory and field work. Second semester. Elective for Undergraduates and Graduates. Hours to be arranged.

C. *Wireless Telegraphy*

Intended for those who propose to enter government or commercial signal service. *Professor* WATSON *and others.*

Three hours. Two hours of practice with the code, two of laboratory work, one of recitation. First or second semester. Elective for Undergraduates and Graduates. *Mon., Fri., 3 to 5.*

A. CIVIL ENGINEERING‡

2, §1, 3, 5. *Surveying*

Theory and practice of plane surveying; use of tape, compass, level, and transit; adjustment of instruments; pen topography; contour drawing; conventional signs; plotting. *Professors* HILL *and* CROSS, *and Assistants.*

Two (two weeks of field work), two, and three hours. Summer vacation, and first semester. Elective for students who have credit for Mathematics 17 and Mechanical Drawing 1. Courses 2 and 1 may not be elected separately. Second semester, *Mon., Wed., Th., at 2.* First semester, *Tu., Fri., at 2, and Mon., Th., 2 to 5.*

4. *Surveying, Advanced Field Work*

Use of stadia, plane table, and barometer; precise base-line measurement with steel tape; triangulation; topography. *Professors* HILL *and* CROSS, *and Assistants.*

One hour. Spring recess. Elective for students who have credit for 2, 1, 3, 5.

6, 7, 16. *Railroad Engineering*

Theory, location, construction, and economics of railroad engineering. Lectures, recitations, field work, and drafting. Second semester: railroad curves and practical problems. First semester: actual location of a line about two miles long, map, and estimate of cost. Second semester: railroad track and track work; maintenance of way depart-

‡ All the courses in this department, except 18 and 43, are required of candidates for the degree of Bachelor of Science in Civil Engineering.

§ Civil Engineering 1 is taken in September during the two weeks preceding the opening of college (September 10–22 inclusive for 1917–18).

ment; economics of location; earthwork and its cost; rock excavation; tunneling. *Professors* Hill *and* Cross.

Three, three (six hours of field work), and three hours. Second, first, and second semesters. Courses 6 and 7 are elective for students who have credit for 5. Course 16 is elective for Juniors and Seniors. Second semester, *Mon., Wed., Fri., at 9.20.* First semester, *Wed., 9.20 to 5.* Second semester, *Mon., Wed., Fri., at 11.20.*

10. *Geodesy*

Problems in geodetic surveying, with sufficient theory for a proper understanding of the formulas used. Lectures, recitations, and computations. *Professor* Hill.

Two hours. One hour of recitation and two hours of computations. Second semester. Elective for students who have credit for 4 and Astronomy 5. *Tu. at 2; Mon., 3 to 5.*

12. *Highway Engineering*

Economics and location of country roads; surveys, grades, drainage, and foundations; construction and maintenance; economics and design of pavements; dust prevention and preservation of macadam roads; use of bituminous materials in the construction and maintenance of roads; methods of testing road materials; roads and pavements in foreign countries; systems of administration and maintenance; highway laws. Lectures, recitations, inspection trips, and seminary work.

Three hours. Second semester. Elective for Sophomores, Juniors, and Seniors. *Tu., Th., Sat., at 8.*

14. *Elements of Structures*

Reactions, shears, moments, stresses in beams, simple trusses, and girders. The course aims to cover thoroughly the fundamental principles of simple structural design, and the essentials of routine structural work. Practice in reading and preparing structural drawings. *Professor* Cross.

Three hours. Second semester. Elective for students who have credit for Mechanics 1. *Mon., Wed., Fri., at 9.20.*

18. *Surveying*

A condensation of 2, 1, 3, 5, designed to give electrical and mechani-

cal engineering students the fundamental principles employed in the use of the tape, transit, and level. *Professor* Hill *and Assistants.*

One hour. Second semester. Not elective. *Fri., 2 to 5.*

26. *Engineering Law and Practice*

Contracts and contracting, business law and relations in general, riparian law, patents, cost systems, organization and management, and kindred topics. The course aims to outline the broader professional activities of the engineer and to indicate his relations to the public and to other professional men, but opportunity is afforded for specialization. *Professor* Cross.

One hour. Two hours of attendance. Second semester. Elective for Juniors and Seniors. *Tu., Th., at 9.20.*

34. *Hydraulic Surveying* (*Applied Hydraulics*)

Methods of surveying applicable to river and harbor work; methods of measuring and rating the flow of streams; actual measurement of the discharge of a stream by means of the current meter, weir, and floats. Recitations and field work.

One hour. Three hours of recitation or eight hours of field work. Last third of second semester. Elective for students who have credit for 5 and Mechanics 3. *Mon., Wed., Fri., at 11.20.*

37, 38. *Theory of Structures*

Extends the work of 14. The essentials of design in steel, masonry, and timber, for both substructure and superstructure. While the work is primarily theoretical, practice and its relations to theory are emphasized. In the second semester special attention is given to reinforced concrete. *Professor* Cross.

Three hours. Through the year. Elective for students who have credit for 14.

40. *Structural Design*

Design of foundations, buildings, bridges, dams, arches, retaining walls, and similar structures; preparation and study of strain sheets and working drawings. Individual problems are given and results are from time to time discussed with the class. *Professor* Cross.

Three hours. Six hours of drafting. Second semester. Elective for students who have credit for or are taking 38. *Tu., Th., Sat., at 8.*

42. *Advanced Structural Design*

Supplements courses listed above by giving the student a knowledge of important literature, and of principles and methods not readily acquired in practice. Discussion of special problems in advanced branches of the science. *Professor* Cross.

Three hours. Six hours of attendance. Second semester. Elective for students who have credit for or are taking 38 and 40. *Tu., 11.20 to 1.20; 2 to 6.*

43, [44]. *Construction in Steel and Concrete*

Primarily for those who will become purchasers rather than designers of engineering structures. Principles and methods of design are explained and the process of construction outlined from foundation to completed structure, the functions of each worker from laborer to purchaser being indicated. Practice in reading and preparing structural drawings. *Professor* Cross.

Three hours. Through the year. Elective for students who have credit for Mechanics 1. First semester, *Mon. at 10.20; Tu., Th., at 12.20.* Course 44 not offered in 1917–18.

45, 46. *Water Supply and Sewerage*

Water supply and sewerage from a sanitary and an engineering standpoint. The first semester is devoted mainly to the chemical, biological, and descriptive aspects of the subjects, and the second semester to engineering construction and design. *Professor* Hill.

Four hours and three hours. Through the year. Course 45 is elective for Seniors. Course 46 is elective for students who have credit for Mechanics 3 and Civil Engineering 14. First semester, *Tu., Th., at 9.20; Mon., Fri., at 12.20.* Second semester, *Tu., 11.20 to 1.20; Mon., 2 to 6.*

36. *Thesis*

A thesis is required of all candidates for the degree of Bachelor of Science in Civil Engineering unless a substitute is allowed by the head of the department. The thesis must embody a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

B. ELECTRICAL ENGINEERING‡

1, 2. *Introductory Technical Course*

Fundamental principles of electricity and magnetism; theory of dynamo-electric machinery; methods of generating and utilizing direct currents; characteristics of generators and motors. *Professor* WATSON.

Three hours. Two hours of recitation and two hours of laboratory work. Through the year. Elective for students who have credit for Physics 1, 2, or 27, 28, and Mathematics 5 or 18. Required of candidates for the degree of Bachelor of Science in Mechanical Engineering. *Mon., Wed., Fri., at 9.20.* Laboratory fee, $2.50 a semester.

3. *Elementary Electrical Engineering*

A short course covering the methods of generating, transmitting, distributing, and utilizing electrical energy. *Professor* WATSON.

Three hours. Two hours of recitation and two hours of laboratory work. First semester. Elective for students who have credit for Physics 1, 2, or 27, 28, and Mathematics 5 or 18. Required of candidates for the degree of Bachelor of Science in Civil Engineering. *Mon. at 9.20; Fri. at 11.20.* Laboratory fee, $2.50.

5. *Telegraph Engineering*

History and present practice of telegraphic, signaling, and protective systems. *Professor* WATSON.

Two hours. One hour of recitation and two hours of laboratory work. First semester. Elective for students who have credit for Physics 1, 2, or 27, 28. *Fri. at 8.*

6. *Telephone Engineering*

Magneto and common-battery manual systems; automatic systems; equipment of central and branch exchanges. *Professor* WATSON.

Two hours. Second semester. Elective for students who have credit for 1 or 3.

8. *Direct Current Machine Design*

Calculation and design of generators, motors, and auxiliary apparatus. *Professor* WATSON.

Three hours. Second semester. Elective for students who have credit for 1. *Mon., Tu., at 10.20; Th. at 9.20.*

‡ All the courses in this department, except 3, are required of candidates for the degree of Bachelor of Science in Electrical Engineering.

9. *Theory of Alternating Currents*

A mathematical and graphical treatment of circuits containing resistance, inductance, and capacity. Principles of alternating current machinery. *Professor* WATSON.

Four hours. Three hours of recitation and two hours of laboratory work. First semester. Elective for students who have credit for 2 and Mathematics 20. *Mon. at 10.20; Th., 9.20 to 11.20.* Laboratory fee, $2.50.

10. *Alternating Current Apparatus*

Methods of generating and utilizing alternating currents; characteristics of generators, motors, converters, and transformers. *Professor* WATSON.

Four hours. Three hours of recitation and two hours of laboratory work. Second semester. Elective for students who have credit for 2. *Mon., Wed., Fri., at 10.20.* Laboratory fee, $2.50.

14. *Alternating Current Machine Design*

Calculation and design of generators, motors, transformers, and auxiliary apparatus. *Professor* WATSON.

Three hours. Second semester. Elective for students who have credit for 9. *Mon., Tu., Th., at 10.20.*

16. *Traction and Transmission Engineering*

Electric railway systems and equipment; theory and design of high tension transmission lines and low tension net-works. *Professor* WATSON.

Two hours. Second semester. Elective for students who have credit for 11. *Mon., Th., at 11.20.*

17, 18. *Seminary in Electrical Engineering*

Reading and discussion of current technical literature.

One hour. Through the year. Elective for students who have credit for 2.

19, 20. *Thesis*

A thesis is required of all candidates for the degree of Bachelor of Science in Electrical Engineering except those who, by permission of the department, are allowed to substitute a regular three-hour course for one semester in some other department. The thesis must embody a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

C. MECHANICAL ENGINEERING‡

1. *Pattern Making*

The principles involved in producing patterns for machinery parts; the care and manipulation of wood-working machinery and hand tools. Lectures, laboratory work, and inspection trips. *Professor* HALL, *Messrs.* FULLER *and* HADLEY.

Three hours. Six hours of attendance. First semester, *Tu., 2 to 6; Fri., 2 to 6.* Laboratory fee, $7.50.

2. *Machine Shop Practice*

The principles of machine shop work; the operation and characteristics of the fundamental machine tools; theory and practice of metal-cutting tools; composition and manipulation of alloys used in the machine shop. Lectures, laboratory work, and inspection trips. *Professor* HALL, *Messrs.* FULLER *and* FISH.

Three hours. Six hours of attendance. Second semester, *Tu., 2 to 6; Fri., 2 to 6.* Laboratory fee, $7.50.

5. *Manufacturing Methods*

Shop management; use of special and automatic machine tools in mass production; construction and use of jigs, fixtures, and gauges. Lectures, written reports, discussions, and inspection trips. *Professors* HALL *and* BROOKS.

Three hours. Six hours of attendance. First semester. Elective for Sophomores, Juniors, and Seniors. *Mon., Wed., Fri., at 9.20; Fri., 2 to 5.*

8. *Machine Drawing*

Study and representation of machine parts; the principles of elementary machine design; sketches, detail, and assembly drawings of machines; practice in reading drawings. *Professor* HALL.

Three hours. Six hours of attendance. Second semester. Elective for students who have credit for Mechanical Drawing 3, and for others by permission. *Tu., Fri., 2.20 to 5.20.*

9. *Kinematics*

Velocity ratios, link-work, parallel motions, cams, rolling surfaces, gears and gear trains; the application of the principles involved. Recitations, drawing, and the solution of problems. *Professor* HALL.

‡ All the courses in this department are required of candidates for the degree of Bachelor of Science in Mechanical Engineering, and, with the exception of 1 and 2, are elective for other students.

Three hours. Six hours of attendance. First semester. Elective for students who have credit for 8, and for others by permission. *Mon., Wed., Fri., 10.20 to 12.20.*

10. *Elements of Machine Design*

Application of the principles of kinematics, mechanics, and strength of materials to the design of riveted fastenings, screw threads, journals, bearings, axles, shafts, gear teeth, belt and rope drives, and machine frames. Lectures, recitations, drawing, and the solution of problems. *Professor* HALL.

Three hours. Six hours of attendance. Second semester. Elective for students who have credit for or are taking 9 and Mechanics 2. *Mon., Wed., Fri., 10.20 to 12.20.*

11, 12. *Machine Design*

Application of the principles of previous engineering courses to the design of representative types of machines. First semester: gas engine design. Second semester: selected problems. *Professor* HALL.

Three hours. Six hours of attendance. Through the year. *Tu., Th., Sat., 10.20 to 12.20.* Elective for students who have credit for 10.

14. *Power Plant Engineering*

Discussion of the relation and coördination of the various parts of the complete power plant; management, and methods of determining efficiency; selection of the best equipment from manufacturers' catalogues and actual inspection. Lectures, recitations, tests, and inspection trips. *Professor* HALL.

Three hours. Six hours of attendance. Second semester. Elective for students who have credit for 15, 16. *Fri., 2 to 5; Tu., Th., Sat., at 8.*

15, 16. *Thermodynamics*

Applications of the principles of gases and vapors to steam, gas, and other heat engines, air-compressors, refrigerating apparatus, etc.; the energy of fuel and its utilization for power purposes by means of various media; laws of the relation of variations of pressure, temperature, and volume of such media; analysis of the various cycles used in heat engines; the principles of the injector and the ejector. *Professor* KENERSON.

Three hours. Through the year. Elective for students who have credit for or are taking Physics 1, 2. *Mon., Wed., Sat., at 9.20.*

17, 18. *Engineering Practice*

Applications of the principles of thermodynamics and mechanics to the production, transmission, utilization, and measurement of power; valves and valve gears, and valve setting; indicator practice and tests of various forms of steam engines, gas engines, etc.; standardization of auxiliary apparatus used in making the various tests; boiler testing; flue gas and fuel analysis, etc. Lectures, recitations, and laboratory work. *Professor* KENERSON.

Three hours. Through the year. Elective for students who have credit for or are taking 15, 16. First semester, *Wed., Fri., Sat., at 8.* Second semester, *Wed., Fri., at 8; Tu., 2.20 to 5.20.*

19, 20. *Materials of Engineering*

Study of the sources, manufacture, and properties of the important materials used in engineering; laboratory tests to determine the behavior of materials when subjected to tensile, compressive, and torsional stresses; mixing and testing of cements and concretes; preparation and examination of sections for the microscopical study of the structure of metals and alloys. Lectures, recitations, and laboratory work. *Professor* KENERSON.

Three hours. Through the year. Elective for students who have credit for or are taking Mechanics 1. *Tu., Fri., at 10.20,* and a two-hour laboratory period.

22. *Advanced Seminary and Laboratory Course*

Discussion of general engineering problems, laboratory investigations, inspection trips, reports, and conferences. *Professors* KENERSON *and* HALL.

Three hours. Second semester. *Mon., Th., 2 to 5.*

24. *Applied Hydraulics*

Laboratory experiments in connection with Mechanics 4. *Professor* BROOKS *and Mr.* FULLER.

One hour. Second semester. Must be taken with Mechanics 4.

25, 26. *Thesis*

A thesis is required of all candidates for the degree of Bachelor of Science in Mechanical Engineering. The thesis must embody a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

D. MECHANICS

1, 2. *Mechanics of Solids*

Statics, including resolution and composition of forces, determination of center of gravity, and problems relative to rigid bodies and flexible cords; dynamics, including rectilinear and curvilinear motion, virtual velocity, moment of inertia, work, energy and power, and friction; strength of materials, including tension, compression, shearing, torsion, and flexure; methods of graphical solution of problems. *Professor* Brooks.

Four hours. Through the year. Required of candidates for the degree of Bachelor of Science. Elective for students who have credit for Mathematics 7, 8. *Tu. at 11.20; Th., 10.20 to 12.20; Sat. at 11.20.*

3. *Mechanics of Fluids*

Hydrostatics; nature and use of instruments; flow through orifices, over weirs, through tubes, through pipes, in conduits; flow of rivers; water supply and water power. *Professor* Brooks.

Three hours. First semester. Required of candidates for the degree of Bachelor of Science. Elective for students who have credit for 1, 2. *Wed., Fri., Sat., at 11.20.*

4. *Applied Hydraulics*

Dynamics of water; theoretical consideration of water wheels, pumps, and pumping machinery. *Professor* Brooks.

One hour. Second semester. Required of candidates for the degree of Bachelor of Science. Elective for students who have credit for 3. Must be taken with Civil Engineering 34 and Mechanical Engineering 24. *Wed., Fri., Sat., at 11.20.*

E. MECHANICAL DRAWING

1. *Elementary Mechanical Drawing*

Selection and use of drafting instruments; lettering; plane problem construction; curve tracing; elementary projection. *Professor* Brooks.

Three hours. Six hours of drawing. First semester. Required in the Freshman year of candidates for the degree of Bachelor of Science. Elective for other students. *Mon., 2 to 5; Th., 1 to 4.*

3. *Mechanical Drawing*

Graphic solution of problems relating to the point, line, and plane; surface tangency, intersections, and developments; isometric draw-

ing, shades and shadows and perspective, machine drawing; practical engineering problems. *Professor* Brooks.

One hour. Three hours of drawing. Second and first semester. Required in the Freshman and Sophomore years of candidates for the degree of Bachelor of Science. Elective for students who have credit for 1 and are taking Mathematics 50, 51 (Descriptive Geometry).

X. ENGLISH‡

Walter Cochrane Bronson, A.M., Litt.D., *Professor of English*
Lindsay Todd Damon, A.B., *Professor of English*
Albert Knight Potter, A.M., *Professor of English*
George Wyllys Benedict, Ph.D., *Associate Professor of English*
Thomas Crosby, Jr., A.M., *Associate Professor of English and Public Speaking*
Henry Barrett Huntington, A.B.,† *Associate Professor of English*
William Thomson Hastings, A.M., *Assistant Professor of English*
Walter Clarke Phillips, A.M., *Instructor in English*
Earl Franklin Wood, A.B., *Assistant in English*
Kenneth Oliver Mason, A.M., *Assistant in English*

1. *Rhetoric and Composition*

Designed primarily to teach clear and correct expression. Training in the fundamentals of prose composition. Lectures, recitations, and themes. *Professors* Benedict *and* Hastings, *Messrs.* Phillips, Wood, *and* Mason.

Three hours. First semester. Required of Freshmen. *1st, 2d, and 7th divisions, Mon., Wed., Fri., at 11.20; 3d and 4th divisions, Tu., Th., Sat., at 11.20; 5th and 6th divisions, Mon., Wed., Fri., at 12.20.*

1 R. *Rhetoric and Composition*

A repetition of 1. Lectures, recitations, and themes. *Mr.* ——.

Three hours. Second semester. Required of students who have failed in 1. *Tu., Th., Sat., at 12.20.*

‡ Credit for 1 or 2 is a prerequisite for admission to all other courses in the department except 48.

Students electing 3, 4 may substitute 3 for 2 if they have received at least the grade of *C* in 1. Students taking 7, 8 in the Sophomore year may omit 2 and take 3 in the Junior year, if they have received at least the grade of *C* in 1.

Courses 1–16 may not be counted in fulfilment of the requirement of a year in English Literature.

† On leave of absence during the first semester, 1917–18.

2. *Rhetoric and Composition*

A continuation of 1. Designed primarily to give training in the method, structure, and style of the chief forms of prose composition. Lectures, recitations, and themes. *Professors* BENEDICT *and* HASTINGS, *Messrs.* PHILLIPS, WOOD, *and* MASON.

Three hours. Second semester. Required of Sophomores.‡ *1st and 2d divisions, Mon., Wed., Fri., at 11.20; 3d division, Tu., Th., Sat., at 11.20; 4th and 5th divisions, Mon., Wed., Fri., at 12.20.*

48. *English Literature from the Beginning to 1700*

An outline course in the history of English literature to the end of the seventeenth century, with reading and study of the greater writers. *Professors* BRONSON, DAMON, POTTER, HUNTINGTON, *and* HASTINGS.

Three hours. Second semester. Required of Freshmen.‡ *1st and 2d divisions, Mon., Wed., Fri., at 11.20; 3d division, Tu., Th., Sat., at 11.20; 4th division, Tu., Th., Sat., at 12.20; 5th division, Mon., Wed., Fri., at 12.20.*

49. *English Literature from 1700 to 1900*

An outline course in the history of English literature of the eighteenth and nineteenth centuries, with reading and study of the greater writers. *Professors* BRONSON, DAMON, *and* POTTER.

Three hours. First semester. Required of Sophomores.‡ *1st and 2d divisions, Mon., Wed., Fri., at 11.20; 3d division, Tu., Th., Sat., at 11.20; 4th division, Tu., Th., Sat., at 12.20; 5th division, Mon., Wed., Fri., at 12.20.*

[3, 4. *English Composition, Second Course*]

Intended to supplement the training given in 1, 2 and to develop the power of exact and lucid statement. Lectures, conferences, and prescribed reading; weekly themes, affording exercise in various plainer kinds of prose writing.

Three hours. Through the year. Elective for Sophomores and Juniors. Not offered in 1917–18.

5, 6. *English Composition, Advanced Course*

Intended to develop ease of style and clarity and vigor of thought. Frequent practice in composition and criticism. *Professor* BENEDICT.

Three hours. Through the year. Elective for a limited number of Juniors and

‡ Candidates for the degree of Bachelor of Science who take an approved substitute for English in the Sophomore year must take English 2 in the Freshman year in place of English 48. See page 60.

Seniors. With the consent of the instructor the course may be repeated. *Mon., Wed., Fri., at 10.20.*

7, 8. *Argumentative Composition*

Intended to develop the power of handling argumentative topics cogently and persuasively. Lectures on the principles and forms of argumentative composition; frequent practice in brief-drawing and the writing of forensics and less formal arguments. First semester, *Professor* HASTINGS. Second semester, *Professor* HUNTINGTON.

Three hours. Through the year. Required in the Sophomore year of candidates for the degree of Bachelor of Philosophy who have not taken mathematics in the Freshman year. Elective for Sophomores, Juniors, and Seniors. *Tu., Th., Sat., at 10.20.*

10. *Debate*

Intended to train students in correct and vigorous oral presentation of ideas. *Professor* HUNTINGTON, *with the coöperation of the Professors of Economics, Social and Political Science, History, and Public Speaking.*

Three hours. Second semester. Elective for a limited number of Juniors and Seniors who have credit for 7. With the consent of the instructor the course may be repeated. *Tu., Th., 2 to 4.*

11, 12. *Public Speaking*

Principles of voice culture; vocal interpretation of literature; extempore speaking. *Professor* CROSBY.

Three hours. Through the year. Elective for Sophomores and Juniors. *Mon., Wed., Fri., at 11.20.*

[13, 14. *Public Speaking, Advanced Course*]

Practice in reading lyric, narrative, and dramatic literature, in extempore speaking, and in the composition and delivery of the common forms of the occasional address. Special attention given to securing right tone-production and to improvement in speech.

Three hours. Through the year. Elective for students who have received at least the grade of *B* in 11, 12. Not offered in 1917–18.

[15, 16. *Old English*]

Essentials of Anglo-Saxon grammar; prose selections; Béowulf.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1917–18.

17, 18. *Chaucer*

Reading of most of Chaucer's works; discussion of the chief types of medieval literature; study of Middle English grammar, with some attention to the development of Modern English. *Professor* POTTER.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Tu., 2 to 4; Th. at 2.*

[21, 22. *The Drama in England to 1642*]

The drama as a literary type and its history in England to the closing of the theatres.

Three hours. Two or three hours of attendance. Through the year. Elective for students who have credit for a year's work in English Literature. Not offered in 1917–18.

23, 24. *The Modern English Drama*

The history of the English drama from 1660 to the present time. Reading and discussion of the work of the chief playwrights from Wycherley and Congreve to Jones, Pinero, and Shaw. *Professor* CROSBY.

Three hours. Through the year. Elective for students who have credit for a year's work in English Literature. *Mon., Wed., Fri., at 12.20.* Not to be offered in 1918–19.

[25, 26. *Shakspere*]

Careful study of a few plays, with special attention to exact interpretation.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Not offered in 1917–18.

27, 28. *Shakspere*

A brief survey of the drama before Shakspere; Shakspere as playwright and poet. Reading of all the plays; careful study of the great tragedies. Lectures, discussions, and reports on assigned topics. *Professor* POTTER.

Three hours. Through the year. Elective for students who have credit for a year's work in English Literature. *Tu., Th., Sat., at 12.20.*

29. *English Literature, exclusive of the Drama, from 1558 to 1603*

Elizabethan verse and prose in their relation to the great movements of the age, with special attention to Spenser and Bacon. *Professor* BRONSON.

Three hours. Two or three hours of attendance. First semester. Elective for students who have credit for a year's work in English Literature. *Mon. at 3; Fri., 3 to 5.* Not to be offered in 1918–19.

30. *English Literature, exclusive of the Drama, from 1603 to 1660*
Puritanism in literature; the Cavalier lyrists; the great prose writers; all the English poems and the more important prose works of Milton. *Professor* Bronson.

Three hours. Two or three hours of attendance. Second semester. Elective for students who have credit for a year's work in English Literature. *Mon. at 3; Fri., 3 to 5.* Not to be offered in 1918–19.

[33, 34. *The English Novel*]
The history of the English novel from 1700 to 1900; reading and discussion of the greater English novelists, including Defoe, Richardson, Fielding, Smollett, Scott, Jane Austen, Dickens, Thackeray, Charlotte Brontë, George Eliot, Meredith, Hardy, Stevenson.

Three hours. Two or three hours of attendance. Through the year. Elective for students who have credit for a year's work in English Literature. Not offered in 1917–18.

[35. *English Literature from 1798 to 1832, Poetry*]
The reaction from classicism; the influence of the French Revolution; liberalism and individualism in English poetry; contemporary criticism. Wordsworth, Coleridge, Southey, Scott, Byron, Shelley, Keats, Landor.

Three hours. Two or three hours of attendance. First semester. Elective for students who have credit for a year's work in English Literature. Not offered in 1917–18.

[36. *English Literature from 1798 to 1832, Prose*]
The development of the romantic novel; the rise of the reviews and quarterlies; essays and miscellaneous prose. Scott, Jane Austen, Coleridge, Jeffrey, De Quincey, Lamb, Hazlitt.

Three hours. Two or three hours of attendance. Second semester. Elective for students who have credit for a year's work in English Literature. Not offered in 1917–18.

37. *English Literature from 1832 to 1892, Prose*
Modifications of romanticism; realism; the influence of science and democracy; tendencies at the end of the century. Essays, history,

miscellaneous prose, the novel. Macaulay, Carlyle, Ruskin, Arnold, Pater, Huxley, Dickens, Thackeray, Charlotte Brontë, George Eliot, Meredith, Hardy. *Professor* Damon.

Three hours. Two or three hours of attendance. First semester. Elective for students who have credit for a year's work in English Literature. *Tu., Th., Sat., at 10.20.*

38. *English Literature from 1832 to 1892, Poetry*

Modifications of romanticism; the influence of science and democracy; tendencies at the end of the century. Tennyson, Browning, Arnold, Clough, Rossetti, Morris, Swinburne. *Professor* Damon.

Three hours. Two or three hours of attendance. Second semester. Elective for students who have credit for a year's work in English Literature. *Tu., Th., Sat., at 10.20.*

[39, 40. *American Literature*]

American literature from the beginning to 1900, in its relation to American life and to English literature. A rapid survey of the literature of the seventeenth and eighteenth centuries; reading and study of the writers of the nineteenth century, with special attention to Irving, Cooper, Bryant, Poe, Longfellow, Emerson, Hawthorne, Whittier, Holmes, Lowell, Whitman.

Three hours. Two or three hours of attendance. Through the year. Elective for students who have credit for a year's work in English Literature. Not offered in 1917–18.

[43, 44. *Seminary in English*]

Three hours. Two hours of attendance. Through the year. Elective for Graduates and for a limited number of Seniors who have received at least the grade of *B* in two years' work in English Literature. Not offered in 1917–18.

XI. GEOLOGY

Charles Wilson Brown, A.M., *Associate Professor of Geology*
Arthur Francis Buddington, Ph.D., *Instructor in Geology*
Richard Montgomery Field, Sc.B., A.M., *Lecturer in Geology*

1. *Elementary Geology*‡

An introductory course in the interpretation of geological evidence. The origin and history of the earth; its land forms, materials, and structure, and the agencies concerned in their production; the progression of life types from the most ancient up to recent forms. *Professor* Brown, *Dr.* Buddington.

Three hours. First semester. Elective for Undergraduates. *Mon., Wed., Fri., at 10.20.* Laboratory fee, $1.50.

6. *Principles of Regional and Economic Geography*

A study of the environmental factors—such as the physiography, the meteorology and climate, soils, the geographic distribution of natural resources—that influence the utilization and economic and political development of a region in the location and development of transportation routes and commerce, agriculture, forestry, manufacturing, and other industries, and the direction of military operations. *Professor* Brown.

Three hours. Second semester. Elective for Undergraduates. *Mon., Wed., Fri., at 10.20.*

3. *Elementary Geology*

Similar to 1.

Two hours. Four hours of attendance. First semester. Required in the Junior year of candidates for the degree of Bachelor of Science in Civil Engineering. Not elective. *Mon., Fri., at 10.20.*

4. *Structural and Dynamic Geology*

A study of the origin and structure of the materials of the earth's crust, their characteristics and economic uses. *Dr.* Buddington.

Three hours. Second semester. Elective for Undergraduates who have credit

‡ This course is preliminary to the other courses in the department except 9, 10, and may be followed by 2, 13; or by 4, 15, 8; or by the geographic series, 6, 5, 15, and 16, which is planned to be especially useful to students who intend to teach geography or physiography in secondary schools, to enter schools of commerce, or to engage in business with inter-continental relations. For preparation for military service 1, 6, and 15 are suggested as containing the elements of the interpretation of topography and topographic maps and their making, together with the meteorology required of aviators,

for 1 or its equivalent. Two lecture and two laboratory hours. A part of this course, counting for two hours, is required in the Junior year of candidates for the degree of Bachelor of Science in Civil Engineering. Four hours of attendance. Laboratory fee, $1.50.

[5. *General Geography of Latin America*]

A study of the topography and climate, natural resources, distribution of agricultural and other products, transportation routes, and commerce.

Three hours. First semester. Elective for Undergraduates except Freshmen and Sophomores who are taking another course in the department. *Tu., Fri., at 2*, and two conference hours. Not offered in 1917–18.

2. *Historical Geology*

The geological history of the earth from its origin to recent times, emphasizing North America, its dynamic, geographic, and climatic changes, and evolution of life types. *Mr.* Field.

Three hours. Second semester. Elective for Undergraduates who have credit for 1, or its equivalent. Two lecture hours and two conference or laboratory hours.

13. *Problems in Dynamic and Stratigraphic Geology*

Detailed study of the problems connected with the dynamic geology, stratigraphy, and index fossils of North America, and especially of New England and of the Narragansett Bay region. *Professor* Brown, *Mr.* Field.

Three hours. Two hours of attendance. First semester. Elective for Juniors, Seniors, and Graduates who have credit for 1 or 3.

9, 10. *Mineralogy and Petrography*

An introductory course in the macroscopic and microscopic study of minerals, ores, and rocks. First semester: discussion of crystal forms and the laws of crystallography; determination by physical properties and blow-pipe analysis of the more common minerals and ores. Second semester: study of the optical properties of the rock-forming minerals, rocks, and ores, under the polarizing microscope; determination of rock types; discussion of the fundamental principles of the origin and classification of rocks. *Dr.* Buddington.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors. Laboratory fee, $3 a semester.

15. *Topographic Geology*

The study of the representation of topographic land forms by maps and models and their recognition and study in the field for map and model construction by the student. This course is designed to familiarize the student or teacher of geography with the principles of map-reading and map-making, both contour and relief, and is similar to the work demanded of army officers. *Professor* Brown, *Dr.* Buddington, *Mr.* Field.

Three hours. Six hours of attendance. First semester. Elective for Undergraduates who have credit for or are taking 1 or 3. Laboratory fee, $1.50. A portion of this work is given this year in Military Engineering A.

[8. *Structural and Field Geology*]

An introductory course in field geology. Study of areal and structural geology in igneous and sedimentary areas from geologic reports; practice in the construction of geologic maps and work in the field areas.

Three hours. Second semester. One conference hour, and five hours' work in the laboratory or field. Elective for Undergraduates who have credit for 1 or 3. Laboratory fee, $1.50. Not offered in 1917–18.

[16. *The Geography of the Western United States*]

A study of the great physiographic provinces of the west, their topographic features, origin, and control of man's activities. The course will include a discussion of the National Parks, the prairies, the high plains, the plateaus and mountain systems of the far west, and their utilization.

Three hours. Second semester. Elective for Undergraduates who have credit for 1 or 3, except Freshmen and Sophomores who are taking another course in the department. Not offered in 1917–18.

11, 12. *Research in Geology and Geography*

Advanced work in the library, laboratory, or field, in the various phases of geology or geography. Arranged to meet the needs of individual students. The region in which the University is situated provides unusual opportunities in a small compass for the study of both simple and complex problems in physiographic, metamorphic, petrographic, mineralogic, paleontologic, and stratigraphic geology. *Professor* Brown, *Dr.* Buddington, *Mr.* Field.

One to six hours. Through the year. Elective for Graduates and approved Undergraduates. Either semester may be elected independently.

XII. GERMANIC LANGUAGES AND LITERATURES‡

ASA CLINTON CROWELL, PH.D., *Associate Professor of the Germanic Languages and Literatures*

ROBERT MCBURNEY MITCHELL, PH.D., *Assistant Professor of the Germanic Languages and Literatures*

ALBERT EDWARD RAND, PH.D., *Assistant Professor of the Germanic Languages and Literatures*

1, 2. *Elementary Course, First Year*

Reading, grammar, composition, conversation, dictation, sight reading. *Professor* RAND.

Three hours. Through the year. Elective for students who have not presented German for admission. *Mon., Wed., Fri., at 9.20.*

3, 4. *Elementary Course, Second Year*

Reading of modern German stories, lyrics, and two dramas illustrating respectively the classical and the modern period. Review of grammar; composition; conversation based upon the texts read. *Professor* MITCHELL.

Three hours. Through the year. Elective for students who have credit for 1, 2 or who have presented elementary German (1 year) for admission. *Tu., Th., Sat., at 9.20.*

5, 6. *Intermediate Course*

Reading of fairly difficult modern German prose and one or two dramas of the classical period. Review of grammar; composition; conversation based upon the texts read. *Professors* MITCHELL *and* RAND.

Three hours. Through the year. Elective for students who have credit for 3, 4 or who have presented elementary German (2 years) for admission. *1st division, Tu., Th., Sat., at 9.20; 2d division, Tu., Th., Sat., at 10.20.*

7, 8. *Advanced Course in Classical and Modern Authors*

One drama of Goethe or Schiller; one drama of Kleist, Grillparzer, or Hebbel; lyrics; a modern novel. Talks in German on German literature; oral and written reports in German. *Professors* CROWELL *and* RAND.

‡ Students intending to teach German, who wish recommendations from the department, must pass a special examination designed to test their ability to write and to understand German, and, to some extent, to speak it.

Three hours. Through the year. Elective for students who have credit for 5, 6; or who have passed 3, 4 with grade *B;* or who have presented intermediate German for admission. *1st division, Tu., Th., Sat., at 8; 2d division, Tu., Th., Sat., at 10.20.*

9, 10. *Modern Germany: Advanced Composition*

Aims to train the student in reading, speaking, writing, and understanding modern German. Reading of a simple text (such as Mosher's *Willkommen in Deutschland*) to introduce the student to the actual language of daily life, followed by difficult texts dealing with the political, economic, social, and educational institutions of modern Germany, its music, art, science, and philosophy. Talks in German; oral and written reports in German; letter-writing, composition, conversation. Recommended for students preparing to teach. *Professors* Mitchell *and* Rand.

Three hours. Through the year. Elective for students who have credit for 7, 8; or who have passed 5, 6 with grade *B* or 3, 4 with grade *A;* or who have presented intermediate German for admission. *1st and 2d divisions, Mon., Wed., Fri., at 10.20.*

17, 18. *Lessing and Schiller*

Study devoted mainly to the dramas of Lessing and Schiller. Lessing the writer and reformer; his early dramas as precursors of his greater productions. English and French influence. The development of the middle-class tragedy. Problems common to all of Schiller's dramas. Reading and translations of representative pieces. Talks in German; reports in German and English. *Professor* Crowell.

Three hours. Through the year. Elective for students who have credit for 5, 6 and for others by permission. *Tu., Th., Sat., at 11.20.*

[23, 24. *Goethe*]

Study of Goethe's dramas including *Faust* (in the second semester), with selections from *Werthers Leiden* and *Dichtung und Wahrheit. Faust* compared with other productions in European literature presenting a kindred problem. Translation and interpretation of the texts. Talks in German; reports in German and English.

Three hours. Through the year. Elective for students who have credit for 5, 6 and for others by permission. Not offered in 1917–18.

19, 20. *Introduction to Scientific Prose*

Aims to aid students who expect to use German in the study of other

subjects. Careful study of word-formation and special vocabularies. Reading of narrative and descriptive prose, with selections from such books as Greenfield's *Technical and Scientific German* and Du Bois-Reymond's *Wissenschaftliche Vorträge. Professor* CROWELL.

Three hours. Through the year. Elective for students who have credit for 5, 6 or its equivalent. *Mon., Wed., Fri., at 11.20.*

[11, 12. *German Lyrical Poetry*]

Introduces the student to the various aspects of the life of the German people as reflected in the lyrical poetry of the last two centuries. Lectures in German; oral and written reports in German.

Three hours. Through the year. Elective for students who have credit for 7, 8, or 9, 10, or who have passed 5, 6 with grade *B*. Not offered in 1917–18.

13, 14. *The German Short Story*

The development of the short story into a literary form. The study of the Novelle as represented by Kleist, Ludwig, Heyse, Storm, C. F. Meyer, Keller, and others, with frequent reference to the chief writers of the short story in France, England, and America. Lectures and reports in German and English. *Professor* MITCHELL.

Three hours. Through the year. Elective for students who have credit for 7, 8, or 9, 10, or who have passed 5, 6 with grade *B*. *Mon., Wed., Fri., at 9.20.*

[15, 16. *The German Drama of the Nineteenth Century*]

A study of the development of the German drama from waning romanticism to realism (Kleist, Grillparzer, Hebbel, Hauptmann, Sudermann), with frequent reference to the chief representatives of the modern drama in other countries. Lectures in German; oral and written reports in German and in English.

Three hours. Through the year. Elective for students who have credit for 7, 8, or 9, 10, or who have passed 5, 6 with grade *B*. Not offered in 1917–18.

[25, 26. ¶¶ *German Literature to the End of the Classical Period*]

Aims to acquaint the student with the most important movements in the evolution of German literary life before 1832. Lectures in German; reports on assigned topics; extensive reading.

Three hours. Through the year. Elective for students who have credit for 7, 8, or 9, 10. Announced but not given in 1917–18.

[27, 28. *German Literature in the Nineteenth Century*]
A study of the literary life of Germany as an expression of German civilization in the nineteenth century. The Romantic School, Young Germany, Naturalism, Realism, Neo-Romanticism; frequent references to prominent personalities in other domains of intellectual life. Lectures in German; reports on assigned topics; extensive reading.

Three hours. Through the year. Elective for students who have credit for 7, 8, or 9, 10. Not offered in 1917–18.

[31. *Gothic*]
The Gothic language, with reading of extracts in Streitberg's *Gotisches Elementarbuch* or Braune's *Gotische Grammatik.*

Three hours. First semester. Elective for Graduates and approved Undergraduates. Not offered in 1917–18.

[32. *Old High German*]
Grammar and reading of selections in prose and verse. Some knowledge of Gothic expected. Braune's *Althochdeutsche Grammatik* and Braune's *Althochdeutsches Lesebuch.*

Three hours. Second semester. Elective for Graduates and approved Undergraduates. Not offered in 1917–18.

35, 36.¶¶ *Middle High German*
The German language and literature of the twelfth and thirteenth centuries; elements of grammar; translation into English and modern German of selections from the most important epics and lyrics: *Das Nibelungenlied, Walther von der Vogelweide, Hartmann von Aue,* and *Wolfram von Eschenbach.*

Three hours. Through the year. Elective for Graduates and approved Undergraduates.

37, 38. *Seminary in Germanic Mythology*
Discussion of the subject in its relation to German Literature. Written and oral reports. *Professor* Crowell.

Three hours. Through the year. Two hours of attendance. Elective for Graduates and approved Undergraduates.

The attention of students of Germanic Languages is also called to the following courses: Greek 16, *The Natural History of Language;* English 15, 16, *Old English;* and English 17, 18, *Chaucer.*

XIII. GREEK LITERATURE AND HISTORY

FRANCIS GREENLEAF ALLINSON, PH.D.,† *David Benedict Professor of Greek Literature and History, Director of the Museum of Fine Arts*

KENDALL KERFOOT SMITH, PH.D., *Assistant Professor of Greek Literature and History*

A, B. *Beginner's Course: Greek Grammar, Xenophon, and Homer*

The student may expect by the end of the course to have read at least one book each in Xenophon's *Anabasis* and Homer's *Iliad*. He will be admitted in the following year to Greek 1 and 2 if he completes by private study before the opening of the first semester the requirement in Homer, and before the opening of the second semester the requirement in the *Anabasis*. *Professor* SMITH.

Three hours. Through the year. Elective for students who have not presented elementary and advanced Greek for admission. *Mon., Wed., Fri., at 12.20.*

1. *Homer and other Greek Poetry exclusive of the Drama*

Selections from the *Iliad* and the *Odyssey*, from the more important lyric poets, and from the Epigrams. *Professors* SMITH *and* GREENE.

Three hours. First semester. Elective for students who have presented elementary and advanced Greek for admission, or who have credit for A, B and have done the additional work indicated above. *Tu., Th., Sat., at 12.20.*

2. *Plato and Lysias*

Plato: *Apology* and *Crito*, with selections from the *Phaedo*, and collateral readings from Xenophon's *Memorabilia* and the *Clouds* of Aristophanes. Lysias: *Orations* VII, XXII, XXIII, XXIV. *Professor* ALLINSON.

Three hours. Second semester. Elective for students who have credit for 1. *Tu., Th., Sat., at 12.20.*

3. *Lucian and the Dramatic Poets*

Selections from Lucian. Lectures on the Greek drama. The *Oedipus Tyrannus* of Sophocles and collateral reading in the *Prometheus* of Aeschylus. *Professor* ALLINSON.

Three hours. Second semester. Elective for Sophomores. *Mon., Wed., Fri., at 10.20.*

4. *The Historians*

The eighth book of Herodotus, with collateral reading of the *Persians*

† On leave of absence during the first semester, 1917-18.

of Aeschylus and Plutarch's *Themistocles.* The seventh book of Thucydides, with collateral reading of the *Acharnians* of Aristophanes. *Professor* SMITH.

Three hours. First semester. Elective for Sophomores. *Mon., Wed., Fri., at 10.20.*

5. *The Drama*

Aeschylus: *Agamemnon.* Euripides: *Medea.* Aristophanes: *Frogs.* Menander: *Arbitrants* and *The Girl from Samos. Professor* ALLINSON.

Three hours. Second semester. Elective for Juniors and Seniors. *Tu., Th., Sat., at 9.20.*

6.¶¶ *Oratory*

Demosthenes: *On the Crown;* selections from his other speeches and from other Attic orators. *Professor* SMITH.

Three hours. First semester. Elective for Juniors and Seniors.

[7. *Plato*]

Republic, I–X: selections in Greek, remainder in English. Collateral readings from the *Phaedrus* and *Meno; Protagoras; Timaeus, Critias,* and *Laws.*

Three hours. Second semester. Elective for Juniors and Seniors. Not offered in 1917–18.

[8. *Aristotle*]

The *Politics* and *Ethics.* A study of the fundamental Aristotelian principles of politics and ethics. The reading is mainly in English, but ability to use and interpret the Greek text will be constantly demanded.

Three hours. Second semester. Elective for Juniors and Seniors. Not offered in 1917–18.

12. *Greek Composition*

Professor ALLINSON.

One hour. Second semester. Elective for Undergraduates.

[13, 14. *Modern Greek*]

Introduction to the language; readings from living Greek authors and Greek newspapers. Designed for students intending to continue their

preparation in Greek at the American School of Classical Studies in Athens.

One hour. Through the year. Elective for Juniors and Seniors. Not offered in 1917–18.

15. *Greek Civilization*

The life of the Greeks from Homer to the second century after Christ, with special study of the political, social, and religious institutions of the classical period as illustrated by the literature, history, and monuments of art. Must be followed in the second semester by Latin 16, Roman Civilization. The two semesters together constitute the course in Classical Civilization. *Professors* ALLINSON *and* SMITH, *Dr.* SHAPLEY.

Three hours. First semester. Required in the Freshman or Sophomore year of candidates for the degree of Bachelor of Philosophy. Not elective. *1st division, Mon., Wed., Fri., at 9.20; 2d division, Mon., Wed., Fri., at 11.20.*

[16. *The Natural History of Language*]

Outline of the history of Language; the Indo-European family. Adapted for students of ancient or modern languages.

Three hours. Second semester. Elective for Undergraduates, candidates for the degree of Bachelor of Arts, or for candidates for the degree of Bachelor of Philosophy who have previously taken Greek 15. Not offered in 1917–18.

17, 18. *Greek Seminary*

First semester: Selections from the *Greek Anthology* arranged historically. Survey of the contemporary literature from *Solon* to *Lucian. Professor* ALLINSON. Second semester: Greek *Inscriptions:* The Alphabets and Historical Documents. *Professor* SMITH.

Three hours. Two hours of attendance. Through the year. Elective for Graduates and approved Seniors.

XIV. HISTORY‡

THEODORE FRELINGHUYSEN COLLIER, PH.D., *Professor of European History*

ST. GEORGE LEAKIN SIOUSSAT, PH.D., *George L. Littlefield Professor of American History*

1, 2. *Medieval and Modern History of Europe*

A general survey of the history of western Europe from the time of the barbarian invasions to the present. Lectures, text-book, assigned reading, reports, and frequent tests. *Professor* COLLIER.

Three hours. Through the year. Required of candidates for the degree of Bachelor of Arts in the Sophomore or Junior year, and of candidates for the degree of Bachelor of Philosophy in the Freshman, Sophomore, or Junior year. *Mon., Th., Fri., at 2.*

[3. *History of Christianity, Early and Medieval Period*]

A study of organized Christianity, its origins, establishment, expansion, and the development of its institutions and doctrines, from the Apostolic Age to the eve of the Reformation. Lectures and parallel reading, with frequent assignments in the sources.

Three hours. First semester. Elective for Juniors, Seniors, and Graduates. With 4 constitutes a continuous year course in Church history, but may be elected independently. Not offered in 1917–18.

[4. *History of Christianity, From the Reformation to the Present*]

The Reformation; Counter-Reformation, reaction, and religious conflict; Puritanism and non-conformity; pietism and evangelicalism; Methodism; missions and expansion; main currents of organized Christianity in the nineteenth century. Lectures and parallel reading, with frequent assignments in the sources.

Three hours. Second semester. Elective for Juniors, Seniors, and Graduates. A continuation of 3, but may be elected independently. Not offered in 1917–18.

[5. *The French Revolution and the Napoleonic Era*]

A survey of the eighteenth century, with particular reference to the causes of the French Revolution, followed by a detailed study of the Revolution, its principles and development, and the rise and overthrow of Napoleon.

‡ The elective courses in History are regularly open only to students who have credit for 1, 2, but by special permission of the instructor certain elective courses may be taken by students who are at the same time taking 1, 2.

Three hours. First semester. Elective for Juniors, Seniors, and Graduates. With 6 constitutes a continuous year course in modern European history, but may be elected independently. Not offered in 1917–18; to be offered in 1918–19.

[6. *Europe since 1815*]

The reconstruction of Europe after Napoleon; reaction and revolution; political reorganization, and the formation of the present states of Europe; colonial expansion and world-politics; social development.

Three hours. Second semester. Elective for Juniors, Seniors, and Graduates. A continuation of 5, but may be elected independently. Not offered in 1917–18; to be offered in 1918–19.

[7. *English History to 1603*]

A general course in the history of England from the Roman occupation to the close of the reign of Elizabeth. Lectures, parallel reading, frequent tests, and regular assignments in the sources, with written or oral reports.

Three hours. First semester. Elective for Juniors, Seniors, and Graduates, and for Sophomores who have credit for 1, 2. Not offered in 1917–18.

8. *English History since 1603*

A general course in the history of modern England, tracing the evolution of constitutional and Parliamentary government, economic development, social progress, colonial expansion, and the growth of the British Empire. Lectures, parallel reading, frequent tests, and regular assignments in the sources, with written or oral reports. *Professor* Collier.

Three hours. First semester. Elective for Juniors, Seniors, and Graduates, and for Sophomores who have credit for 1, 2. *Tu., Th., Sat., at 10.20.*

10. *History of Germany since 1648*

A study of the evolution of modern Germany: the rise of Prussia; dissolution of the old Empire; nationalism and unification; the present Empire; Germany as a world power. Lectures, assigned reading, tests, and reports upon special topics. *Professor* Collier.

Three hours. Second semester. Elective for Juniors, Seniors, and Graduates, and for Sophomores who have credit for 1, 2. *Tu., Th., Sat., at 10.20.*

11, 12. *Seminary in European History*

Intensive study of a limited period or of a special phase of social or

political development, with a view to training in historical method and the use of the sources. Subject for 1917–18: The Near Eastern Question. *Professor* COLLIER.

Three hours. Two hours of attendance. Through the year. Elective for Graduates and approved Juniors and Seniors.

13, 14. ¶¶ *History of the Middle East*

An outline history of the countries near the eastern end of the Mediterranean. First semester: The rise and development of Egypt, Babylonia, Assyria, Phoenicia, Israel, Persia; emphasis upon the rise of imperial government and international relations, and the growth of ancient social institutions, literature, art, and religion. Second semester: The eastern conquests of Alexander and Rome, the Neo-Persian Empire, the Mohammedan Caliphate, the Turkish Empire; emphasis upon the interaction of eastern and western civilization, the eastern spread of Mohammedanism, and the reëntrance of southwestern Asia into world politics. *Professor* FOWLER.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates, and for Sophomores who have credit for 1, 2. Either semester may be elected independently.

17, 18. *American History*

A general course, covering the whole period from the beginnings of English colonization to the present time. Intended as an introduction to the advanced courses in American history and for students who wish only a general survey of the subject. *Professor* SIOUSSAT.

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and Graduates. Either semester may be elected independently, but 18 should preferably be preceded by 17. *Mon., Wed., Fri., at 12.20.*

[19, 20. *American History to 1787*]

A general course covering the colonial and revolutionary periods, and including a survey of French and Spanish as well as of English colonization.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates, and for Sophomores who have credit for 1, 2. Not offered in 1917–18.

21, 22. *The United States under the Constitution*

A general course covering the period from 1787 to the present time.

Special attention will be given to the foreign relations of the United States. *Professor* Sioussat.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates, and for Sophomores who have credit for 1, 2. Either semester may be elected independently, but 22 should preferably be preceded by 21. *Tu., Th., Sat., at 11.20.*

[23, 24. *Latin-American History*]

An outline study of Spanish and Portuguese expansion in America, exclusive of the United States, with special reference to the colonial period, and the rise and progress of the Latin-American Republics, their social development, economic resources, and present condition.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1917–18.

25, 26. *Seminary in American History*

Designed to afford training in historical investigation and practice in the use of sources. The subjects vary from year to year, and are drawn from both the colonial and the constitutional periods. Subject for 1917–18: Phases of the Westward Movement in the United States. The first semester will include an intensive study of the development of the United States under the Articles of Confederation. *Professor* Sioussat.

Three hours. One to two hours of attendance. Through the year. Elective for Graduates and approved Seniors. Should be preceded by 17, 18, or 19, 20, or 21, 22, but in exceptional cases may be taken by students who at the same time are taking 19, 20, or 21, 22.

XV. MATHEMATICS‡

ROLAND GEORGE DWIGHT RICHARDSON, PH.D., *Professor of Pure Mathematics*

OTIS EVERETT RANDALL, PH.D., *Professor of Applied Mathematics*

HENRY PARKER MANNING, PH.D., *Associate Professor of Pure Mathematics*

RAYMOND CLARE ARCHIBALD, PH.D., *Associate Professor of Pure Mathematics*

CLINTON HARVEY CURRIER, A.M., *Assistant Professor of Mathematics*

THEODORE HENRY BROWN, PH.D., *Instructor in Mathematics*

2. *Plane Trigonometry*

Professors RICHARDSON, MANNING, *and* ARCHIBALD.

Three hours. First semester. Elective for Undergraduates who have not presented Plane Trigonometry for admission. *5th division, Mon., Wed., Fri., at 8; 3d and 4th divisions, Mon., Wed., Fri., at 9.20; 1st and 2d divisions, Tu., Th., Sat., at 9.20.* There is an honor division in each of the last groups.

1. *Solid and Spherical Geometry*

Professors MANNING *and* ARCHIBALD, *Dr.* BROWN.

Three hours. Second semester. Elective for Undergraduates who have not presented Solid Geometry for admission. *One division, Tu., Th., Sat., at 8; one division, Mon., Wed., Fri., at 9.20; one division, Tu., Th., Sat., at 9.20.*

3. *Algebra*

Professors MANNING *and* ARCHIBALD.

Three hours. Second semester. Elective for Undergraduates who have not presented Advanced Algebra for admission. *One division, Mon., Wed., Fri., at 9.20; two divisions, Tu., Th., Sat., at 9.20.*

‡ Students wishing to specialize in mathematics should take the undergraduate courses in the order 2, 3, 5, 6, 7, 8, 9. Course 1, together with as many of courses 11, 12, 21–44, 55, 56 as possible, should be taken as opportunity offers in connection with the other courses. Freshmen intending to specialize in mathematics should consult some member of the department before registering, and should, if possible, take two courses in the first year.

It is recommended that students who contemplate teaching in the secondary schools elect courses 1, 2, 3, 5, 6, 7, 8, 41, 42, 43, 44.

Courses 17 A, 18 A, 19, 20, 50, 50 A, 51, are primarily for candidates for the degree of Bachelor of Science, but may be elected by others.

Courses 21–40 are designed primarily for Graduates. Two or three of these courses are offered each year according to the needs of students. For those who have taken all of them, other courses can usually be arranged.

Unless elected by five students, courses 21–40 may not be given.

5. *Plane Analytic Geometry*

Professor RICHARDSON *and Dr.* BROWN.

Three hours. First semester. Elective for students who have credit for Plane Trigonometry. *Mon., Wed., Fri., at 9.20.*

6. *Analytic Geometry and Differential Calculus*

Professor RICHARDSON *and Dr.* BROWN.

Three hours. Second semester. Elective for students who have credit for 5. *Mon., Wed., Fri., at 9.20.*

7, 8. *Differential and Integral Calculus*

A continuation of 6. *Professor* ARCHIBALD.

Three hours. Through the year. Elective for students who have credit for 6. *Tu., Th., Sat., at 12.20.*

9. *Differential Equations*

Professor MANNING.

Two hours. First semester. Elective for students who have credit for 8 or 20. A part of this course, counting for one hour, is required during the first half of the semester in the Junior year of candidates for the degree of Bachelor of Science in Electrical Engineering. *Tu., Th., at 12.20.*

[11. *Analytic Geometry of Three Dimensions*]

An introductory course based on Snyder and Sisam's *Analytic Geometry of Space,* pages 1–108.

Three hours. First semester. Elective for students who have credit for 7, 8, and for others by permission. Not offered in 1917–18.

[12. *Modern Analytic Geometry*]

Topics in Plane Analytic Geometry with special reference to tangential coördinates.

Three hours. Second semester. Elective for students who have credit for 7, 8, and for others by permission. Not offered in 1917–18.

16 A. *Spherical Trigonometry and Navigation*

An introductory course, the greater part of which will be devoted to the theory and practice of navigation. Principal topics: determination of time, latitude and longitude, and other data necessary for navigating a ship; use of the necessary instruments. *Dr.* BROWN.

Three hours. Second semester. Elective for students who have credit for Plane Trigonometry. Hours to be arranged.

17 A. *Plane Trigonometry and Analytic Geometry*

Professors RICHARDSON *and* CURRIER, *Dr.* BROWN.

Four hours. First semester. Required of candidates for the degree of Bachelor of Science (new course). Students who have presented Plane Trigonometry for entrance will be put in a special division. *Mon., Tu., Th., Sat., at 11.20.*

18 A. *Analytic Geometry and Calculus*

Professors RICHARDSON *and* CURRIER, *Dr.* BROWN.

Four hours. Second semester. Required of candidates for the degree of Bachelor of Science (new course). *Mon., Tu., Th., Sat., at 11.20.*

19, 20. *Analytic Geometry and Calculus*

Professor CURRIER.

Four hours. Through the year. Required of candidates for the degree of Bachelor of Science (old course). *Tu., Th., Sat., at 10.20; Wed. at 8.*

21, 22. *Function Theory of a Complex Variable*

Professor RICHARDSON.

Three hours. Through the year. Elective for Graduates and approved Undergraduates. *Mon., Wed., Fri., at 10.20.*

[23, 24. *Theory of Differential Equations*]

Three hours. Through the year. Elective for Graduates and approved Undergraduates. Not offered in 1917–18.

[25, 26. *Advanced Algebra*]

Three hours. Through the year. Elective for students who have credit for 3, 41, 42, and for others by permission. Not offered in 1917–18. To be offered in 1918–19.

27, 28. *Projective Geometry*

Introductory course. The synthetic treatment of the subject during the first semester is based on Dowling's *Projective Geometry;* the analytic treatment of the second semester consists mainly of topics from Salmon's *Conic Sections. Professor* ARCHIBALD.

Three hours. Through the year. Elective for Graduates and approved Undergraduates. *Tu. at 2; Th. at 8; Fri. at 3.*

[29, 30. *Introduction to Analysis*]

The foundations of the differential calculus; definite integrals; line integrals; multiple integrals.

Three hours. Through the year. Elective for students who have credit for the Calculus, and who have credit for or are taking 41, 42. Not offered in 1917–18. To be offered in 1918–19.

[31, 32. *Applications of Calculus to Geometry*]

Introductory course in the differential geometry of plane and space curves, curved, ruled, and developable surfaces, families and nets of curves on surfaces, triply orthogonal systems of surfaces, and conformal representation of one surface upon another. The historical development of the subject is also presented, and Gauss's memoir on "General Investigations of Curved Surfaces" is read.

Three hours. Through the year. Elective for students who have credit for 8 or 20. Not offered in 1917–18.

[39, 40. *Course in Advanced Topics*]

Amount of credit to be arranged. Elective for Undergraduates and Graduates who have adequate preparation. Not offered in 1917–18.

41, 42. *Fundamental Problems of Algebra*

An introduction to some of the concepts of modern analysis; designed for students who expect to teach as well as for those who are preparing for advanced work in mathematics. Among the topics to be treated are: the number system; limits; infinite series; the fundamental operations; determinants. *Professor* MANNING.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Mon., Wed., Fri., at 11.20.*

[43, 44. *Foundations, Methods, and Problems of Geometry*]

Designed for those who expect to teach mathematics. The main topics of the course will be: foundations; Euclid and his modern rivals; American, French, German, and Italian texts; methods for attacking Euclidean problems; geometrography; famous problems and transcendence of π; history.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Not offered in 1917–18. To be offered in 1918–19.

50. *Descriptive Geometry*

Discussion and proof of problems relating to the point, line, and plane; line and surface generation and classification. *Professor* RANDALL.

Two hours. Second semester. Required in the Freshman year of candidates for the degree of Bachelor of Science (old course) who have credit for Mechanical Drawing 1 and are taking Mechanical Drawing 2. Elective without Mechanical Drawing for other approved students. *Tu., Sat., at 9.20.*

50 A. *Descriptive Geometry*

Discussion and proof of problems relating to the point, line, and plane; line and surface generation and classification. *Professor* RANDALL.

Three hours. Second semester. Required in the Freshman year of candidates for the degree of Bachelor of Science (new course) who have credit for Mechanical Drawing 1. Elective without Mechanical Drawing for approved students.

51. *Descriptive Geometry*

Discussion and proof of problems relating to surface tangency, intersections, and developments; application of the principles of descriptive geometry in isometric drawing, shades and shadows and perspective, and practical engineering problems. *Professor* RANDALL.

Two hours. First semester. Required in the Sophomore year of candidates for the degree of Bachelor of Science who have credit for Mechanical Drawing 2 and are taking Mechanical Drawing 3. Elective without Mechanical Drawing for other approved students who have credit for 50. *Tu., Sat., at 11.20.*

[55, 56. *Theoretical Mechanics*]

An introductory course in statics and dynamics with numerous problems.

Three hours. Through the year. Elective for Graduates and approved Undergraduates who have credit for 7, 8 or 19, 20. Not offered in 1917–18.

XVI. MUSIC

EDWIN ERNEST WILDE, *Lecturer in Music*

1.¶¶ *The Appreciation of Music*

Designed to foster an intelligent appreciation of music by acquainting the student with the principles underlying musical composition

and with their application by composers from Palestrina to Beethoven.

Three hours. First semester. Elective for Sophomores, Juniors, and Seniors.

2. Romanticism in Music

A study of developments in music since 1800. Discussion of such subjects as nationalism, dissonance, and ultra-modern tendencies. Analytical study of important works of representative composers from Beethoven to Strauss, Debussy, and Elgar. *Mr.* WILDE.

Three hours. Second semester. Elective for Sophomores, Juniors, and Seniors. *Mon., Wed., Fri., at 12.20.*

[*3. The Symphony*]

Designed to cultivate an intelligent listening to symphonic music. Analysis of orchestral forms from 1650 to the present, with a study of the various instruments used in a modern symphony orchestra. Lectures, illustrations at the piano, by soloists, and by phonograph.

Three hours. First semester. Elective for Sophomores, Juniors, and Seniors. Not given in 1917–18.

[4. *The Opera*]

A history of operatic composition. Analysis of musico-dramatic works from the first attempts of the Florentine reformers to the masterpieces of Wagner and Debussy. Lectures and illustrations by phonograph.

Three hours. Second semester. Elective for Sophomores, Juniors, and Seniors. Not given in 1917–18.

5, 6. *Harmony and Elementary Musical Form*

Designed to develop an ability to recognize in aural analysis the harmonies of major and minor modes and to employ the same in the composition of original short forms. A correct ear and the knowledge of music-notation is required. *Mr.* WILDE.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Tu., Th., Sat., at 11.20.*

XVII. PHILOSOPHY‡

Edmund Burke Delabarre, Ph.D., *Professor of Psychology*
Walter Goodnow Everett, Ph.D., *Professor of Philosophy and Natural Theology*
Alfred Harrison Jones, Ph.D., *Assistant Professor of Logic*
Frederick Lum Ferris, A.M., *Assistant in Philosophy*

1, 2. *Introduction to Philosophy*

Designed to prepare the student for the study of philosophy, and to acquaint him with some of its most significant problems and results. *Professor* Jones.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Mon., Wed., Fri., at 9.20.*

3, 4. *Psychology and Ethics*

First semester: Psychology. A survey of the main facts and laws of mental life, aiming to provide a sound foundation for further acquaintance with this and allied subjects, for an improved judgment in dealing with many practical problems, and for understanding the psychological bases of philosophy. Second semester: Ethics. An introductory course dealing in a concrete way with the moral values of daily experience, and intended to aid the student in forming a practical philosophy of life. First semester, *Professor* Delabarre. Second semester, *Professor* Everett.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Either semester may be elected independently by Seniors. *Tu., Th., Sat., at 9.20.*

5, 6. *Psychology, Intermediate Course*

A study of the fundamental principles on which a scientific system of psychology must be based; the nature and composition of consciousness, its relation to bodily processes, and its complete subjection to law; the criteria for accepting evidence and forming sound judgments in connection with the problems of so-called psychical research. *Professor* Delabarre.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates who have credit for a course in Psychology.

‡ After 1917–18, the required work in Philosophy must be completed not later than the end of the Junior year.

7, 8. *History of Philosophy*

The successive philosophical systems as revealing the logical development of European philosophy. The course also aims to exhibit the significant relations which philosophy has sustained to civilization, especially in its fundamental political, scientific, religious, and cultural elements. *Professor* EVERETT.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 9.20.*

9. *Philosophy of Religion*

A constructive study of the nature of the religious consciousness, and of the ultimate problems of religious belief. *Professor* EVERETT.

Three hours. First semester. Elective for Juniors, Seniors, and Graduates who have credit for a year course in Philosophy. *Tu., Th., Sat., at 11.20.* May be taken with 4 to satisfy the requirement of a year's work in Philosophy.

30. *History of Religion*

An outline study of the history of the principal religions of the world. This course is the same as Biblical Literature 30. *Professors* FOWLER *and* JONES.

Three hours. Second semester. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 11.20.*

10. *Applications of Psychology*

Description of some of the important ways in which the principles of psychology are being practically applied to the problems of modern life. *Professor* DELABARRE.

Three hours. Second semester. Elective for students who have credit for 3. *Tu., Th., Sat., at 9.20.*

11, 12. ¶¶ *Experimental Psychology, Introductory Laboratory Course*

Description of the main lines and results of experimental research; demonstrations by the instructor or the class; training in the use of apparatus and in careful scientific observation and measurement. *Professor* DELABARRE.

Three hours. Six hours of attendance. Through the year. Elective for Juniors, Seniors, and Graduates who have credit for 3.

13. *Logic*

Intended to train the student in correct methods of reasoning. Especial attention will be given to the analysis of arguments, and the detection of fallacies. *Professor* JONES.

Three hours. First semester. Elective for Sophomores, Juniors, and Seniors. *Tu., Th., Sat., at 10.20.* May be taken with 4 to satisfy the requirement of a year's work in Philosophy.

14, 16. *Contemporary Philosophy*

A seminary for the study of important philosophical theories of the present day, particularly those of James, Royce, Bergson, and Russell. *Professor* JONES.

Three hours. Through the year. Elective for Seniors and Graduates.

17, 18.¶¶ *Psychology, Advanced Course*

A seminary for the discussion of important problems in psychology. The problems discussed will vary, and the course may be taken for two or more years. *Professor* DELABARRE.

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 5, 6.

19,20.¶¶ *Experimental Psychology, Advanced Laboratory Course*

The aim is to study further the problems of experimental psychology, and, whenever possible, to make original contributions to scientific knowledge. The problems investigated will vary, and the course may be taken for two or more years. *Professor* DELABARRE.

One to six hours. Two to twelve hours of attendance. Through the year. Elective for students who have credit for 11, 12. May be taken for more than six hours by Graduates.

21, 22. *Advanced Ethics*

A seminary course for the study of the more important problems of ethical theory. Lectures, written reports, and discussions. Subject for 1917-18: Problems of Contemporary Life; a study of the ethical significance of some social, economic, and religious movements of the present day. *Professor* EVERETT.

Three hours. Through the year. Elective for Seniors and Graduates who have credit for a year course in Philosophy.

XVIII. PHYSICS

CARL BARUS, PH.D., LL.D., *Hazard Professor of Physics*
ALBERT DE FOREST PALMER, PH.D., *Associate Professor of Physics*

1, 2. *Elementary Physics* ‡

Designed for those who have had little previous training in physics. First semester: dynamics, molecular physics, and heat. Second semester: optics, acoustics, and electricity. Discussion of the more elementary features of the subjects. Lectures illustrated by experiments and the lantern; weekly written exercises, including examples from D. E. Jones's collection. *Professor* BARUS.

Three hours. Through the year. Elective for Undergraduates who have credit for Entrance Algebra and Plane Geometry. *Mon., Wed., Fri., at 10.20.*

27, 28. *Elementary Physics*

Identical with 1, 2, except that the written exercises mentioned are replaced by problems solved in an additional hour in the class-room. D. E. Jones's *Examples in Physics* is used. *Professor* BARUS.

Three hours. Through the year. Four hours of attendance. Required of all candidates for the degree of Bachelor of Science. *Mon., Wed., Fri., at 10.20; Th. at 11.20.*

29, 30. *Elementary Physics*

A series of simple laboratory exercises designed to illustrate the general principles discussed in 1, 2, and 27, 28. *Professor* PALMER.

One hour. Two hours of attendance. Through the year. Elective for Undergraduates who have credit for Entrance Algebra and Plane Geometry. Laboratory fee, $4 a semester.

3, 4. ¶¶ *Elementary Physics, continued* §

The more advanced parts of the subjects treated as in 1, 2. *Professor* BARUS.

Three hours. Through the year. Elective for students who have credit for 1, 2 and Mathematics 1, 2.

‡ Students who intend to teach Physics should elect courses 1, 2; 29, 30; 3, 4; 5, 6. Those who intend to enter medical school should elect 1, 2; 29, 30.

§ Graduates taking course 3, 4 are held responsible for all the class-room demonstrations, or for the full equivalent of either Edser's or Watson's or Daniel's *Principles of General Physics.*

5, 6.¶¶ *Experimental Physics*

An introduction to the theory and practice of physical manipulation. Experimental study of physical phenomena selected to meet the needs of individual students. Written reports and solution of problems. *Professor* PALMER.

Three hours. Six hours of attendance. Through the year. Elective for students who have credit for 1, 2, or 27, 28. Laboratory fee, $6 a semester.

[7, 8. *Mathematical Treatment of Dynamic Problems* ‡]

First semester: discussion of the general principles of dynamics and the development of the general equations of motion. Second semester: application of these principles to special problems in thermodynamics and hydrodynamics.

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 5, 6 and Mathematics 9. Not given in 1917–18.

[9, 10. *Mathematical Theory of Electricity and Magnetism* ‡]

Includes a discussion of the more important problems of electrical science.

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 5, 6 and Mathematics 9. Not given in 1917–18.

11, 12.¶¶ *Advanced Laboratory Course*

Special problems and reference to original sources for methods of solution. *Professors* BARUS *and* PALMER.

Three or six hours. Six or twelve hours of attendance. Through the year. Elective for students who have credit for 5, 6. Laboratory fee, $6 a semester.

13,14.¶¶ *Applied Harmonic Analysis and Applied Vector Analysis* §

Shows the importance of Fourier's method by examples drawn from the analytical theory of heat, from elastics, from alternating electricity, and elsewhere; treatment by the aid of spherical harmonics. Bessel functions and Lamé functions; the chief theorems of vector analysis deduced and applied to dynamics, elastics, hydrodynamics, the electro-magnetics of Maxwell and Hertz, and the electronic theory of Heaviside, Lorentz, and others. *Professor* BARUS.

‡ In determining whether 7, 8, or 9, 10, shall be given, the preference of students will be considered.

§ In determining the content of 13, 14, and 15, 16, the preference of students will be considered.

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 1, 2 and Mathematics 7, 8. A part of this course, counting for one hour, is required in the second semester of the Senior year of candidates for the degree of Bachelor of Science in Electrical Engineering.

15, 16.¶¶ *Physics, Advanced Course*‡

Lectures on dynamics, potential, elastics, hydrostatics, hydrodynamics, viscosity, capillarity, electrostatics, magnetism, electro-magnetism, thermo-electrics, induction, Fresnel's optics, the electro-magnetic theory of light, thermal analytics, and thermodynamics. *Professor* Barus.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates who have credit for Mathematics 7, 8.

21, 22. *Theory of Measurements*

Lectures and recitations on the theory and precision of measurements, and on methods of taking, recording, and reducing observations; laboratory instruction in selected physical measurements. *Professor* Palmer.

Three hours. Five hours of attendance. Through the year. Required of candidates for the degree of Bachelor of Science. Elective for students who have credit for 1, 2, or 27, 28, and Mathematics 7, 8, or 19, 20. *Tu., Th., at 12.20.* Laboratory fee, $4 a semester.

23, 24. *Precision Measurements in Photometry, Electricity, and Magnetism*

Professor Palmer.

Four hours. Eight hours of attendance. Through the year. Elective for students who have credit for 5, 6, or 21, 22, and Mathematics 7, 8, or 19, 20. Laboratory fee, $8 a semester.

25, 26.¶¶ *Radiation, Optics, and Heat*

Experimental study of selected phenomena; demonstrations and personal conferences. *Professor* Palmer.

Three or six hours. Six or twelve hours of attendance. Through the year. Elective for students who have credit for 5, 6, or 21, 22. Laboratory fee, $6 a semester.

‡ In determining the content of 13, 14, and 15, 16, the preference of students will be considered.

XIX. ROMAN LITERATURE AND HISTORY

ALBERT GRANGER HARKNESS, A.M., LITT.D., *Professor of Roman Literature and History*

JOHN FRANCIS GREENE, A.M., *Associate Professor of Roman Literature and History*

1. *Cicero's De Senectute, De Amicitia; Terence's Phormio*

Designed to enable the student to acquire facility in reading Latin, and to give an insight into the practical philosophy of the Romans in public and private life. *Professors* HARKNESS *and* GREENE.

Three hours. First semester. Elective for students who have presented elementary and advanced Latin for admission. *1st division, Tu., Th., Sat., at 11.20; 2d division, Tu., Th., Sat., at 12.20.*

2. *Selections from Horace*

Critical study of certain poems, supplemented by rapid reading of others. The social and political ideals of the early Empire are emphasized. *Professors* HARKNESS *and* GREENE.

Three hours. Second semester. Elective for students who have presented elementary and advanced Latin for admission. *1st division, Tu., Th., Sat., at 11.20; 2d division, Tu., Th., Sat., at 12.20.*

3. *Selections from Tacitus, Pliny the Younger, Martial*

Especial attention will be given to the literary style and to the moral and social life of the period. *Professor* GREENE.

Three hours. First semester. Elective for Sophomores. *Mon., Wed., Fri., at 12.20.*

4. *Plautus' Captivi, Trinummus, Rudens*

The main object will be to appreciate Roman comedy and to show its relation to modern comedy, and to acquire a feeling for Latin as a spoken language. *Professor* HARKNESS.

Three hours. Second semester. Elective for Sophomores. *Mon., Wed., Fri., at 12.20.*

5, 6. *Latin Poetry*

Aims to give a connected and comprehensive view of the history and development of Latin poetry. Lectures on the lives and writings of the authors; reading of characteristic selections; special study, by members of the class, of assigned topics in literary history and criticism.

First semester: Plautus. Second semester: Lucretius and Catullus. Forms with 7, 8 a two-year consecutive course, affording a general survey of Roman literature. *Professors* HARKNESS *and* GREENE.

Three hours. Through the year. Elective for Juniors and Seniors. Either semester may be elected independently.

[7, 8. *Latin Prose*]

Aims to give a connected and comprehensive view of the history and development of Latin prose. Lectures on the lives and writings of the authors, on the development of oratory, etc.; reading of characteristic selections; special study, by members of the class, of assigned topics in literary history and criticism. First semester: specimens of early Latin, Cicero's *Brutus*, and Quintilian. Second semester: the *Annals* of Tacitus. Forms with 5, 6 a two-year consecutive course, affording a general survey of Roman literature.

Three hours. Through the year. Elective for Juniors and Seniors. Either semester may be elected independently. Not offered in 1917–18.

11, 12. ¶¶ *Latin Composition*

Professor GREENE.

One hour. Through the year. Elective for Sophomores, Juniors, and Seniors.

13, 14. *History of the Roman Empire*

The Early Empire; the Age of the Antonines; the Age of Constantine. *Professor* GREENE.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Either semester may be elected independently. *Tu., Th., Sat., at 9.20.*

16. *Roman Civilization*

An outline of Roman civilization and its influence on modern times. Special attention will be given to the literature and to the political and social life. No knowledge of Latin required. Must be preceded in the first semester by Greek 15, Greek Civilization. The two semesters together constitute the course in Classical Civilization. *Professors* HARKNESS *and* GREENE.

Three hours. Second semester. Required in the Freshman or Sophomore year of candidates for the degree of Bachelor of Philosophy. Not elective. *1st division, Mon., Wed., Fri., at 9.20; 2d division, Mon., Wed., Fri., at 11.20.*

17, 18. *Seminary in Latin*

Subject for 1917–18: Reading from the poetry of the Empire. Gudeman's *Latin Literature of the Empire,* vol. II. Questions in textual criticism and in the structure of Latin verse will be considered. *Professors* HARKNESS *and* GREENE.

Three hours. Two hours of attendance. Through the year. Elective for Graduates.

XX. ROMANCE LANGUAGES AND LITERATURES

FRENCH, ITALIAN, SPANISH

COURTNEY LANGDON, A.B., *Professor of the Romance Languages and Literatures*

ALBERT BUSHNELL JOHNSON, A.M., *Associate Professor of the Romance Languages and Literatures*

CHARLES HERMAN HUNKINS, DR. UNIV. PARIS,† *Assistant Professor of the Romance Languages and Literatures*

EDOUARD R. MASSEY, B. ÈS LETTRES, *Instructor in French*

NELSON LEWIS GREENE, A.M., *Assistant in French*

1, 2. *Elementary French, First Year*

Grammar, composition, dictation, conversation; translation of selections from modern authors into idiomatic English. *Mr.* MASSEY.

Three hours. Through the year. Elective for students who have not presented French for admission. *Mon., Wed., Fri., at 8.*

3, 4. *Elementary French, Second Year*

Reading of easy modern French prose in the form of stories, plays, or historical or biographical sketches; review of grammar; composition and conversation based upon the texts read. *Mr.* GREENE.

Three hours. Through the year. Elective for students who have credit for 1, 2 or who have presented elementary French (1 year) for admission. *Mon., Wed., Fri., at 8.*

5, 6. *Intermediate French*

Reading of modern and classical authors; review of grammar; composition and conversation based upon the texts read; dictation. *Messrs.* MASSEY *and* GREENE.

† On leave of absence during the academic year 1917–18.

Three hours. Through the year. Elective for students who have credit for 3, 4 or who have presented elementary French (2 years) for admission. *1st division, Tu., Th., Sat., at 10.20; 2d division, Tu., Th., Sat., at 9.20; 3d division, Mon., Wed., Fri., at 9.20.*

7, 8. *Advanced French*

An introduction to classical and modern French literature; composition; conversation based on the texts read; dictation. *Messrs.* MASSEY *and* GREENE.

Three hours. Through the year. Elective for students who have credit for 5, 6 or who have presented intermediate French for admission. *1st division, Mon., Wed., Fri., at 9.20; 2d division, Tu., Th., Sat., at 11.20; 3d division, Tu., Th., Sat., at 8.*

9, 10. *The Realistic School*

Flaubert, Augier, the younger Dumas, the Goncourts, Daudet, Zola, Taine, Loti, and others; abstracts, in French, of works read outside the class; sight reading a prominent feature. The course will be conducted largely in French. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who have credit for 7, 8. *Tu., Th., Sat., at 9.20.*

11, 12. *The Romantic School*

The history of the romantic school; reading of authors from Chateaubriand and Victor Hugo to Rostand; abstracts of works read outside the class. Lectures in English and in French. *Professor* LANGDON.

Three hours. Through the year. Elective for students who have credit for 7, 8. *Mon., Wed., Fri., at 10.20.*

[23, 24. *Practice in Writing and Speaking French*]

Intended especially for those preparing to teach. Written and oral translations from English into French. Conversation; dictation; phonetics.

Three hours. Through the year. Elective for students who have credit for 7, 8. Not offered in 1917–18.

A. ¶¶ *Military French*

Conversational French. Beginners' course. *Professor* JOHNSON.

One hour. Through the year. Elective for those taking military training. *Th. at 4.*

B. *Military French*

Conversational French. Advanced course. *Mr.* MASSEY.

One hour. Through the year. Elective for those taking military training. *Th. at 7.*

17, 18. *Elementary Italian, First Year*

Grammar, composition, and reading of modern authors. *Professor* LANGDON.

Three hours. Through the year. Elective for Juniors and Seniors, and for Sophomores not electing more than one other modern language. *Mon., Wed., Fri., at 9.20.*

19, 20. *Dante in English*

A study of the whole of the *Divina Commedia* in English, in the light of modern thought and of other world-poems. *Professor* LANGDON.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Students are advised to elect this course in their Senior year. *Mon., Wed., Fri., at 11.20.*

15, 16. *Elementary Spanish, First Year*

Grammar, conversation, composition, and reading of modern authors. *Professor* JOHNSON.

Three hours. Through the year. Elective for Juniors and Seniors, and for Sophomores not electing more than one other modern language. *1st division, Tu., Th., Sat., at 10.20; 2d division, Tu., Th., Sat., at 11.20.*

21, 22. *Elementary Spanish, Second Year*

Reading of modern authors; review of grammar; composition; conversation. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who have credit for 15, 16. *Mon., Wed., Fri., at 11.20.*

XXI. SOCIAL AND POLITICAL SCIENCE‡

James Quayle Dealey, Ph.D., *Professor of Social and Political Science*

John Corliss Dunning, LL.B., Ph.D., *Assistant Professor of Political Science*

Harold Stephen Bucklin, A.B., *Instructor in Social Science*

SOCIAL SCIENCE§

1. *Elementary Social and Political Science*

Affords a general outline of these subjects, and serves as an introduction to the more extended and special courses which follow. *Professor* Dealey.

Three hours. In connection with Economics 1 constitutes a year course required in the Sophomore, Junior, or Senior year of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy, and in the Sophomore year of candidates for the degree of Bachelor of Science. Elective for others. The combined courses will be given in two sections. For the first section Economics will be given in the first semester and Social and Political Science in the second semester. *Tu., Th., Sat., at 10.20.* For the second section Social and Political Science will be given in the first semester and Economics in the second semester. *Mon., Wed., Fri., at 12.20.* Students must indicate their choice of sections on the registration card.

3, 4. *Social Work in Times of War*

A study of social problems arising from and closely related to the war, in the light of the standards, principles, and methods of social work in peace times. Social work with and for the army and for prisoners. Hospital and Red Cross social service. Standards and methods in emergency relief; the reëducation and employment of disabled men; and the care of the families of soldiers. Social problems of working conditions, housing, intemperance, and crime in war times; after-war problems of unemployment and immigration. Lectures, reading, individual observation and investigation, class excursions, and descriptive talks by workers in local social agencies and organizations. *Mr.* Bucklin.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 12.20.*

‡ Semester courses in this department may be elected separately unless otherwise stated.
§ The advanced courses in Social Science are elective for students who have credit for Economics 1 and Social and Political Science 1.

5. *Origin and Development of Society*

Formation and dispersion of primitive groups, union and assimilation of groups, stages of culture, origin of races, the race struggle, institutions growing out of the race struggle; development of social institutions and problems involved. *Professor* DEALEY.

Three hours. First semester. Followed in the second semester by 16. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 11.20.*

16. *Social Psychology*

Psychological principles underlying social order and progress; social suggestion and imitation; the psychology of social groups; applications of the principles of social psychology to modern social problems. *Professor* DEALEY.

Three hours. Second semester. Preceded in the first semester by 5. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 11.20.*

7. *Sociology as a Science*

Relation of sociology to other sciences and its fundamental teachings; the principles underlying the development of society and its great social institutions. *Professor* DEALEY.

Three hours. First semester. Elective for Juniors, Seniors, and Graduates.

8. *Sociology in its Applications*

Sociological principles and teachings in respect to social progress in its chief aspects. A survey of the constructive trend in modern civilization. *Professor* DEALEY.

Three hours. Second semester. Elective for Juniors, Seniors, and Graduates.

9. *Racial and Immigration Problems in the United States*

The problems of assimilation and amalgamation of racial groups in the United States: immigration laws and policies, typical immigrant groups and the problems centering in them, and the relation of immigration to other social problems. A survey of the field of social work with races and immigrants through lectures, reading, excursions, studies of local conditions, and observation and investigation of the work of local social agencies. There will be a limited opportunity for volunteer field work. *Mr.* BUCKLIN.

Three hours. First semester. Followed in the second semester by 10. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 10.20.*

10. *Social Problems affecting the Child and the Juvenile*

The child welfare movement. Relation of the social group to the normal juvenile. Juvenile defectives, delinquents, dependents, and neglected. A survey of the field of social work with the child and the juvenile through lectures, reading, excursions, studies of local conditions, observation and investigation of the work of local social agencies. There will be a limited opportunity for volunteer field work. *Mr.* Bucklin.

Three hours. Second semester. Preceded in the first semester by 9. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 10.20.*

[11, 12. *Seminary in Sociology*]

First semester: a study of ancient and medieval teachings relating to society and social progress; the great precursors of sociology in the eighteenth century. Second semester: a survey of the chief sociological systems set forth since the beginning of the nineteenth century, and the influence exerted by these on the life and institutions of modern society.

Three hours. Through the year. Elective for Seniors and Graduates. Not offered in 1917–18.

13, 14. *Social Investigation and Training*

Study and practice in methods of gathering, interpreting, and presenting the data of social problems and movements. Investigation of social agencies and institutions. Consideration of the principles of social case work and of the social survey. This work will be done in coöperation with selected social agencies. *Mr.* Bucklin.

Three hours. Five hours of field work and one hour of class-room discussion. Through the year. Must be preceded or accompanied by Social Science 3, 4, or Social Science 9, 10. Elective for Graduates, and for a limited number of approved Juniors and Seniors.

POLITICAL SCIENCE‡

1. *Elementary Social and Political Science*

See Social Science 1.

3, 4. *Government and Politics of the United States*

First semester: national government, its organization, powers, and methods; current political issues. Second semester: municipal governments; framework and activities of European and American municipalities. *Professor* DUNNING.

Three hours. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 9.20.*

[5. *Governments and Politics of Foreign States*]

The political systems of the Great Powers of Europe, including a study of types of colonial administration.

Three hours. Elective for Juniors, Seniors, and Graduates. Not offered in 1917–18.

6. *International Law*

A study of international relations. National policy as shown in diplomatic intercourse and in hostilities to which the United States has been or is a party. Present national diplomatic problems. Rights and obligations of citizens and resident aliens. *Professor* DUNNING.

Three hours. First semester. Followed in the second semester by 2. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 10.20.*

2. *Governments and Politics of Latin-American States*

A study of political development and conditions in Latin-America, and of Pan-American diplomacy. *Professor* DUNNING.

Three hours. Second semester. Preceded in the first semester by 6. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 10.20.*

7. *Jurisprudence*

An analysis of the fundamental concepts of the science of law; the historical development of Roman and English legal systems. *Professor* DUNNING.

Three hours. First semester. Followed in the second semester by 8. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 9.20.*

‡ The advanced courses in Political Science are elective for students who have credit for Economics 1 and Social and Political Science 1.

8. *Constitutional Law*

Principles and development of American constitutional law. Case system. *Professor* DUNNING.

Three hours. Second semester. Preceded in the first semester by 7. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 9.20.*

9, 10. *Seminary in Political Science*

A study of ancient and modern political theories. Rise of modern democratic principles. Present theories in respect to the state; its origin, sovereignty, and forms of government. Relation of these theories to the practical problems arising from the present war. *Professor* DEALEY.

Three hours. Through the year. Elective for Seniors and Graduates. *Mon., Th., 4.30 to 6.* Not to be offered in 1918–19.

13, 14. *Investigation of Special Topics*

Intended to train students in methods of gathering and presenting data in the study of political problems. In connection with this course, work in comparative legislation may be taken under the direction of the Legislative Reference Bureau of the State Library. *Professor* DUNNING.

Three hours. Five hours of investigation and one hour of class-room work. Through the year. Elective for Graduates, and for a limited number of approved Seniors.

PHYSICAL TRAINING

FREDERICK WILLIAM MARVEL, PH.B., *Professor of Physical Training*
MYRON WHITMARSH FINCH, SC.B., *Instructor in Physical Training*
GEORGE FRANKLIN HERRICK, *Assistant in the Gymnasium*
ROSS ELMER BROWNING, *Assistant in the Gymnasium*

From Thanksgiving to the Spring Recess, all first and second year students are required to attend gymnasium exercises three times a week as follows:

FRESHMEN. *1st division, Tu., Th., Sat., at 10.20; 2d division, Mon., Th., Fri., at 4.*

SOPHOMORES. *1st division, Mon., Wed., Fri., at 10.20; 2d division, Mon., Th., Fri., at 5.*

Under the direction of special instructors, classes in heavy gymnastics and apparatus work and in wrestling are held six afternoons a week.

Swimming is a part of the required work. Special instruction is given by appointment. All students are required to pass a swimming test before graduation.

No charge is made for instruction in any branch of gymnastics or athletics.

ORIENTATION LECTURES

Lectures upon the scope and aims of college education by administrative officers and members of the Faculty.

The object of the course is to explain to the new students the organization and administrative system of the University; to instruct them concerning the general content of the academic curriculum; to describe the libraries, laboratories, and other facilities for study; to offer general advice regarding methods of study and the preservation of health; and to discuss the relation of the social organizations to the University and the students. The lectures will define and describe the general subjects of the curriculum, such as literature and language, art, philosophy, and the various sciences; discuss their relations to one another; and attempt to determine their intellectual, moral, esthetic, and vocational values.

One hour. Through the year. Required of all Freshmen. Manning Hall, *Tu. at 2.*

RELIGIOUS EDUCATION

COURSES arranged for the training of directors of Religious Education in churches and allied organizations, lay assistants of pastors, teachers of the Bible, and other leaders in religious work.

The growing demand for trained leaders in the work of religious education has led Brown University to arrange a special two-year course of study designed to meet the needs of mature men and women who may not be able to undertake a full degree course. Such persons will be received as special students in the University, provided their previous training has fitted them to pursue the various courses outlined below. On the successful completion of the two-year course a certificate will be awarded by the University. Those who are engaged in other occupations for a portion of their time may take a part of the work each year, completing the entire course in a longer period than two years. Regular undergraduate and graduate students may elect these courses.

First Year

Old Testament Literature and History. *Biblical Literature and History 15, 16.*

Biblical Seminary (*subject for 1917–18: The Teachings of Jesus*). *Biblical Literature and History 21, 22.*

Outlines of Economics. *Economics 1.*

Principles or History of Education. *Education 1* or *2.*

History of Christianity. *History 3, 4.*

Outlines of Social and Political Science. *Social and Political Science 1.*

Training Course for Religious Service. Special course, not counted toward a degree.

Second Year

New Testament Literature and History. *Biblical Literature and History 17, 18.*

Psychology of Education. *Education 3.*

Ethics. *Philosophy 4.*

Philosophy of Religion. *Philosophy 9.*

History of Religion. *Biblical Literature 30, Philosophy 30.*

Social Problems, Movements, and Agencies. *Social Science 3, 4.*

Social Investigation and Training or Social Psychology and an elective. *Social Science 13, 14,* or *16.*

The above course is not intended to be absolutely fixed; substitutions may be made to meet individual needs and, in some cases, the courses prescribed will be interchanged between the two years.

The University makes arrangements with leading churches, and with the Providence Christian Associations, the Rhode Island Sunday School Association, and the Society for Organizing Charity, for coöperation in the practical training of students in religious and social service as the needs of individual students dictate.

MILITARY INSTRUCTION

Reserve Officers' Training Corps

Charles W. Abbot, Major U. S. Army, Retired, *Professor of Military Science and Tactics*

James Russell Esty, Sc.M., *Assistant in Military Training*

A, B. *Military Training*

Military science and practical exercises. The first third of the year will be devoted chiefly to infantry drill; the second third to classroom instruction in military theory, history, and administration, and to military gymnastics; the last third to drill, tactical problems, and practice manoeuvres. Frequent target practice.

Three hours. Six to nine hours of attendance. Through the year. Elective for Undergraduates and Graduates, but may not be counted toward an advanced degree. Undergraduates electing this course must complete it as a requirement for graduation; while taking it they are excused from the regular requirement of gymnasium exercises. Absence from drill or tardiness is not permitted, except by arrangement with the officer in charge. *Tu., Th., Sat., at 8;* during drill seasons, *Wed., 2–5;* other hours for lectures may be arranged.

C, D. *Military Training*

Practical and theoretical instruction in minor tactics and in the duties of officers, company administration, and property accountability.

Three hours. Through the year. Six to nine hours per week of lectures and in the preparation of papers. Open only to undergraduate students who have had considerable military training and who are approved by the head of the department.

In addition to these courses in Military Training the following courses have been especially planned to meet the needs of students who intend to enlist in national service: Biology 1, 2; Engineering A, B, C; French A, B; Geology 15; Mathematics A; Political Science 6, 2; Social Science 3, 4. See statements of these courses under the separate departments.

LIBRARIES, LABORATORIES, AND MUSEUMS

THE UNIVERSITY LIBRARY

HARRY LYMAN KOOPMAN, A.M., LITT.D., *Librarian*

THE libraries of the University contain over two hundred and fifty thousand volumes. The MAIN LIBRARY is constantly increased with reference to the different courses of study, while at the same time there is kept in view the development of a library of general culture. It includes seven special libraries. The first is the Harris Collection of American Poetry, founded by Albert G. Greene, of the class of 1820, extended by C. Fiske Harris, and bequeathed to the University by the Hon. Henry B. Anthony, of the class of 1833, which numbers over twenty-three thousand volumes, being the largest collection in the world devoted to the subject, and is rapidly growing; a fund of ten thousand dollars given by Samuel C. Eastman, of the class of 1857, in memory of the founder of the collection, provides for its regular increase. The second is the Rider Collection of Rhode Island History, formed by Sidney S. Rider and presented to the University by Marsden J. Perry, a collection remarkable for the extent and rarity of its manuscript and printed material bearing on the history of the state. The third is the Wheaton Collection of International Law, given by William V. Kellen, of the class of 1872, in honor of Henry Wheaton, of the class of 1802. This collection already numbers over sixteen hundred volumes. The fourth is the George Earl Church Collection, the bequest of Colonel Church, consisting of thirty-five hundred volumes, many of them of great rarity, on the geography, history, and development of South America. The fifth is the Corthell Engineering Library, containing seven thousand volumes and pamphlets. This collection is particularly rich in works on river and harbor engineering. A fund of five thousand dollars given with the collection by the founder, Elmer L. Corthell, of the class of 1867, provides for its increase. The sixth is the Chambers Dante Collection, containing eleven hundred volumes besides many rare pamphlets, given by Henry D. Sharpe, of the class of 1894. The seventh is the private library of the late Professor Lester F. Ward, numbering one thousand volumes, relating especially to sociology and paleobotany. It was given by his family.

On the floor of the stack which opens off the reading room has been placed a special collection known as the STUDENTS' LIBRARY, which consists of some seventeen thousand volumes selected for the use of undergraduates. To this floor all students have free access. The other floors of the stack are open regularly to the Faculty, and to students by special permission.

The library is open during term time from 8.30 a.m. to 10 p.m. on week days,

and from 2 to 10 p.m. on Sundays; during vacations on week days, from 9 a.m. to 5 p.m.

THE JOHN CARTER BROWN LIBRARY

The John Carter Brown Library, with the building erected for its use, was given to the University by the trustees under the provisions of the will of the late John Nicholas Brown, of the class of 1885. This collection, known as the most valuable library of Americana in the United States, was begun by John Carter Brown, of the class of 1816, and after his death was enlarged by his widow and by his sons, John Nicholas and Harold Brown. It possesses more than twenty thousand volumes in print and in manuscript relating to North and South America during the Colonial period, including rare and unique maps. The library may be used by properly qualified students or investigators. The building is open from 9 a.m. to 5 p.m. on week days, except on Saturdays in vacation, when it closes at 12 o'clock.

DEPARTMENT LIBRARIES

The Germanic Department Library comprises over eight thousand volumes relating to German literature, philology, and history. The rooms, Sayles 6 and 7, are open from 9.20 a.m. to 12.30 p.m., and from 2 to 4.30 p.m.

The English Department Library comprises about three thousand volumes, of which more than twenty-seven hundred came from the private library of the late Hammond Lamont, Professor of Rhetoric in Brown University from 1895 to 1900. The library is in the English Seminary rooms, in the John Hay Library.

The Libraries of the Departments of Greek and Latin constitute the Albert Harkness Classical Seminary, named in honor of its founder, the late Professor Albert Harkness. It comprises fifteen hundred volumes. The room, Sayles 8, is open from 9.20 a.m. to 10 p.m.

The Romance Department Library comprises about a thousand volumes. It is contained in Sayles 4.

The Biblical Department Library comprises fifteen hundred volumes. The room, Sayles 3, is open from 9.20 a.m. to 12 m., from 2 to 5 p.m., and from 7 to 9 p.m., except Wednesday and Saturday afternoons and Saturday evenings.

The Biological Department Library comprises about two thousand two hundred volumes and fifteen hundred pamphlets. More than fifty current periodicals are regularly received. The rooms, in the Arnold Biological Laboratory, are open from 9.20 a.m. to 5 p.m.

The Educational Department Library comprises more than two thousand volumes, chiefly text-books of recent publication. It occupies the seminary rooms of the department, in the John Hay Library.

The Library of the Department of Economics comprises about fifteen thousand volumes and twenty thousand pamphlets, and receives regularly about one hundred and twenty-five periodicals. The rooms are on the first floor of the old library building, and are open from 9 a.m. to 1 p.m. and from 2.30 to 5.30 p.m., except Saturdays, when the hours are from 9 a.m. to 1 p.m.

The Botanical Department Library comprises about fifteen hundred bound volumes, several thousand pamphlets, and the more important current periodicals. The rooms of the department are in Maxcy Hall.

The Library of the Department of Physics comprises files of the leading periodicals and a collection of standard works and monographs in all departments of Physics. The room, in Wilson Hall, is open daily.

The Mathematical Department Library comprises more than seven hundred volumes of mathematical journals and sixteen hundred other books. Application for use of the library should be made to the librarian, Professor Manning. The library room is Wilson 27; officers of the department are usually in Wilson 28 or Wilson 19 between 8 a.m. and 5 p.m.

The Library of the Division of Engineering comprises about three thousand volumes, including complete sets of many periodicals. All the important engineering periodicals are regularly received. Its rooms are on the second floor of the Engineering Building. It is supplemented by the Corthell Library already described.

The Library of the Department of Geology comprises more than three thousand volumes together with a large collection of charts and maps. The more important geologic, geographic, and mining periodicals are regularly received. The library is contained in Rhode Island Hall, and is open from 9 a.m. to 5 p.m.

Other Department Libraries. There are several other special collections of books for seminary and advanced laboratory work. The most important of these belong to the departments of Astronomy, Chemistry, History, Philosophy, and Social and Political Science.

The Women's College Library and Reading Room occupy two rooms in Pembroke Hall. The library comprises thirty-five hundred volumes of standard literature, chosen with special regard to the courses offered, thus forming for students of the Women's College a convenient and valuable adjunct to the University Library. An experienced librarian is in charge.

OTHER PROVIDENCE LIBRARIES

There are at the service of the students of the University the seven collections of books named below. These comprise, with the University Library, over six hundred and fifty thousand volumes, exclusive of pamphlets and manuscripts.

The Providence Public Library offers to all students of Brown University, upon the same conditions as to other residents of the city, the use of its collection of more than one hundred and seventy-five thousand volumes. About one thousand periodicals are currently received. The Information Desk may be consulted with reference to any department of University study. The library is situated at the corner of Washington and Greene Streets. Its principal rooms are open regularly from 9 a.m. to 9 p.m.; on Sundays, from 2 to 9 p.m.

The Library of the Providence Athenaeum is a collection of general literature numbering eighty-nine thousand volumes. It receives over two hundred papers and magazines. It is especially rich in sets of periodicals and in books on art. Professors or teachers may become annual subscribers on the payment of four dollars in advance, and any duly accredited student of Brown University may become a subscriber for three months on the payment of one dollar; but the rights of such subscribers are personal only and do not extend to their families. The Athenaeum is open on week days, from 8.30 a.m. to 9 p.m.

The Library of the Rhode Island Historical Society is situated on Waterman Street, next to the old University Library Building. It comprises forty thousand bound volumes, fifty thousand pamphlets, and two hundred thousand manuscripts, and by the courtesy of the society is accessible, free of charge, to members of the University. It is open on week days, from 9 a.m. to 5 p.m.

The Annmary Brown Memorial, situated on Brown Street south of the University grounds, was founded by General Rush C. Hawkins, of New York, in memory of his wife, Annmary Brown, of Providence, a granddaughter of Nicholas Brown, after whom the University was named. It contains a collection — one of the most complete in the world — of books from the first European presses showing the progress of printing through the first half century of its existence, from about 1450 to 1500. It contains also a notable collection of paintings. In connection with the Memorial, General Hawkins has provided for two lectures on "The Function of the Arts in Civilization," to be given annually in Sayles Hall, on March 9 and October 28, the birthdays of his wife and her sister, Carrie Mathilde Brown Bajnotti.

The Library of the Rhode Island Medical Society occupies a building of its own on Francis Street, opposite the State House. It comprises about twenty-five thousand volumes upon medical science, including current medical periodicals. Upon application students may, without cost, enjoy its privileges. The

library is open on week days, from 9 a.m. to 5.30 p.m.; except on Saturdays, when it closes at 12 m.

The State Law Library is a collection of forty thousand volumes, and for certain lines of University study is invaluable. University students are requested to introduce themselves at the desk. The rooms of the library are in the Providence County Court House, at the corner of Benefit and College Streets, and are open on week days, from 9 a.m. to 5 p.m.; except on Saturdays, when they close at 3 p.m.

The State Library, located in the State House, contains official documents of the United States and of the several states, and general works pertaining to history, political science, and social science. The Legislative Reference Bureau conducted by the State Library directs the work of students who are investigating topics in comparative legislation. The library is open to the public on week days, from 9 a.m. to 4 p.m.; except on Saturdays, when it closes at 12 m.

LABORATORIES

The Ladd Astronomical Observatory contains an equipment available for illustrating the general courses in astronomy and for practical use in the applied courses. During the college year the Observatory is open to the public on one or more evenings a month.

The Physical Laboratory is in Wilson Hall, which was specially designed and constructed for the Department of Physics. Six laboratory rooms are available for experimental study. There is a large collection of apparatus and historical and other photographs, lantern-slides, and cage models illustrating the propositions in pure and applied physics.

The Chemical Laboratories are in Rogers Hall, which was erected expressly for the Department of Chemistry. The inorganic laboratory is supplied with tables and lockers for about two hundred and fifty students. The organic laboratory is fitted with tables for about fifty students.

The Geological Laboratories and Museum are in Rhode Island Hall. They are equipped with apparatus, photographs, maps, models, and illustrative specimens for work in general geology, geography, mineralogy, and petrography. The region in which the University is situated provides unusual opportunities in a small compass for the study of both simple and complex problems in field research in petrographic, metamorphic, paleontologic, and stratigraphic geology.

The Biological Laboratories for subjects other than Botany are in the Arnold Biological Laboratory. In this building are separate laboratories for

General Biology, Comparative Anatomy, Embryology and Histology, Physiology and Bacteriology; several special laboratories and research rooms; and the Biological Department Library. On account of close relations with the Providence Health Department, the Rhode Island Hospital, the Providence City Hospital, and the Rhode Island Shell-fish Commission, and on account of the location of Providence at the head of Narragansett Bay, the laboratory is peculiarly favored in the matter of material for study. The department has official connection with the Woods Hole Station of the United States Bureau of Fisheries and the Biological Laboratory at Cold Spring Harbor.

The Botanical Laboratories are in Maxcy Hall, on the first floor. There is also a greenhouse for experimental work adjoining the building. The Herbarium, in an adjoining room, is accessible to advanced students in forestry and medicinal and systematic botany.

The Botanical Garden is located about one mile north of the University, at the corner of Morris Avenue and Sessions Street. A part of the Garden is being developed into an arboretum. Another section is utilized for instruction in the growing of various kinds of coniferous and hardwood trees from seed and for experimental work on certain diseases peculiar to these trees.

The Psychological Laboratory occupies rooms on the first floor of Rhode Island Hall. The equipment suffices for class demonstrations, for the more usual forms of psychological investigation and training in methods, and for many forms of original research.

The Engineering Laboratories and drafting rooms are situated in the Engineering Building.

The materials laboratory contains 400,000-pound and 50,000-pound Riehlé universal testing machines; a 50,000-inch-pound Olsen torsion testing machine; complete apparatus for making physical tests on cements and concretes, including two Riehlé cement testing machines; and a collection of extensometers and other small apparatus necessary to the work of the laboratory.

The steam and gas engineering laboratory contains a 10-inch and 18-inch by 30-inch cross-compound condensing Harris-Corliss engine equipped with a Wheeler surface condenser and the necessary pumps, a 20-kilowatt De Laval turbo-generator set, a vertical Sturtevant steam engine direct connected to a 5-kilowatt generator, a 40-horse-power 4-cylinder Garford automobile engine, a 24-horse-power 3-cylinder Chase marine engine, an 8-horse-power Fairbanks horizontal gas engine, two air compressors, injectors, and miscellaneous smaller apparatus. The equipment also includes a manograph, indicators, transmission dynamometers, and other apparatus necessary for making complete tests. The central heating plant of the University, containing return tubular boilers of 450 boiler-horse-power capacity and a 110-horse-power Bab-

cock and Wilcox water tube boiler, is used for tests and investigations. For such tests the department possesses apparatus for analyzing flue gas, pyrometers, steam calorimeters, etc.

The hydraulic laboratory contains a 1000-gallon Fales & Jenks rotary fire pump driven by the Harris-Corliss engine, a D'Auria steam pump, pulsometer, Pelton wheel, Humphrey inward flow turbine, hydraulic ram, Venturi meters of different sizes, weirs and measuring tanks, together with the necessary auxiliary apparatus.

The equipment further includes an Emerson bomb calorimeter, jar mill, and complete apparatus for making proximate analyses of fuels; Macbeth illuminometer; equipment for testing lubricating and fuel oils, including Tagliabue viscosimeter; a complete metallurgical microscope; and polishing and photographic apparatus for investigating the nature and structures of alloys.

There is provided a complete equipment of apparatus necessary for the field work in surveying and railroad engineering. For the work in structural engineering a collection of over 400 photographs, 500 large blue prints of bridges, buildings, roof trusses, etc., and a set of steel structural shapes and iron beam-hangers, is provided.

The electrical laboratory is well equipped with the necessary motors, generators, measuring instruments, storage batteries, etc.

The Engineering Shops are situated in Rogers Hall. They are equipped with all the necessary tools for instruction in wood-working and metal-working, and with a forge and gas furnaces for exercise in tool dressing and in hardening, tempering, and heat-treating steel.

MUSEUMS

The Herbarium is in Maxcy Hall. The general collection contains upwards of seventy-five thousand specimens from all parts of the world, but mainly from America. The cryptogams occupy ten cases and the seed-plants thirty. All of these are mounted and systematically arranged according to Engler and Prantl's *Natürliche Pflanzenfamilien*. There are also several cases of unmounted specimens and duplicates. The genus *Carex* is particularly well represented, as it was the object of much special study by Colonel S. T. Olney, the founder of the Herbarium.

The Museum of Fine Arts occupies the first floor of Manning Hall. It contains plaster casts, chiefly from works of classical sculpture, illustrating ancient history, biography, and art. It also contains some original specimens of Etruscan, Graeco-Roman, and Oriental sculpture; the George W. Harris bequest of pictures by old masters of the Italian and North European schools, and of works in marble, china, glass, bronze, and silver; and a large painting by Tin-

toretto, the gift of Mrs. Charles Bradley and the late George L. Bradley. Certain works in silver and china, bequeathed to the University by George W. Harris, are temporarily loaned to the Rhode Island School of Design, and are on exhibition at the museum of that school.

The University possesses a large collection of valuable portraits, which are hung in Sayles Memorial Hall. It includes portraits of the University's principal benefactors, of many of its former officers, and of other distinguished persons, Americans and foreigners. The history of Rhode Island is especially well represented.

Some paintings, selected from the collections of the University, are exhibited in the gallery on the top floor of the John Hay Library.

A series of paintings illustrating early American history, by Frank O. Small, presented to the Department of History by Samuel M. Conant, is hung in the Faculty Room in the Administration Building.

All the collections are open to the public.

UNIVERSITY EXTENSION

THE University offers during each year two series of extension courses, given at the University and open to all who desire to enter. Each course consists of ten lectures or other exercises, and, while not identical with the corresponding course offered to regular students, is equivalent in the general character and amount of the work required. Persons entering these courses may at their option attend merely as listeners, or may do the prescribed work and take the examination given at the end of the course.

On the completion of each course, certificates are issued to those who have done the work assigned and passed the examination. Each extension course of ten lectures or other exercises is regarded by the University as the equivalent of a regular one-hour course for one semester, and is accepted by the University in fulfilment of the requirements for the degree of A.B. and Ph.B. subject to such regulations respecting entrance requirements and prescribed courses as govern regularly enrolled candidates for the respective degrees. Regularly enrolled undergraduates, however, are not given credit for extension courses. Those who wish a certificate or university credit should announce their intention at the time of registration; all such announcements must be made not later than the third lecture of the course.

Applications for admission to extension courses should be sent to Professor Walter Ballou Jacobs, Director of University Extension, John Hay Library, Brown University. The application should give the full name and the address of the applicant, the course or courses in which registration is desired, and, if the applicant is a teacher, the present educational position. On receipt of the fee, a card of admission is issued which must be shown at the lectures in each course. Classes are not formed in any course for which fewer than twenty-five apply. The fee for each course is three dollars and a half, payable in advance. Students desiring a certificate or university credit pay an additional fee of one dollar and a half; this fee is due on registration and must be paid not later than the third lecture of the course. Checks should be made payable to Brown University. They should be sent with the application if possible; if not, payment may be made at the Registrar's office, Administration Building.

The courses offered during the first semester, 1916–17, were:

Our National Parks, *Professor* BROWN.
The Great War of a Hundred Years Ago, *Professor* COLLIER.
Educational Tests, *Professor* COLVIN.
Problems in Structural Design, *Professor* CROSS.
Social and Civic Growth—Providence, *Professor* DEALEY.
Applications of Psychology, *Professor* DELABARRE.
Books that Have Inspired the World, *Professor* KOOPMAN.
Dante's "Inferno," *Professor* LANGDON.
Heredity, *Professor* WALTER.

Problems in Electrical Engineering, *Professor* Watson.
Purpose and Meaning of Fiction, *Mr.* Roy Follett.
French Conversation, M. Edouard Massey.
Accounts—Prominent Features, *Mr.* Arthur L. Philbrick.
Elementary Spanish, *Mr.* Eugene E. Vann.
The Appreciation of Music, *Professor* Marshall, of Boston University.
The Modern Drama, *Professor* Crosby.

The courses offered during the second semester, 1916–17, were:
Structural Mechanics, *Professor* Cross.
Modern Astronomy, *Professor* Currier.
Lyric Poetry, *Mr.* Roy Follett.
Elementary Portuguese, *Dr.* Leite.
The Appreciation of Music, *Professor* Marshall.
French Conversation, M. Edouard Massey.
Accounts, *Mr.* Arthur Philbrick.
American Foreign Policy, *Dr.* Shippee.
Elementary Spanish, *Mr.* Eugene E. Vann.
The Human Skeleton, *Professor* Walter.
Contemporary Drama, *Professor* Crosby.

ARRANGEMENTS WITH OTHER INSTITUTIONS

THE RHODE ISLAND SCHOOL OF DESIGN

THE Rhode Island School of Design is an institution of large and increasing importance for the education of artisans and artists in the principles and processes of art, and for the general advancement of education in art by the exhibition of works of art and art studies, and by lectures. Its school buildings and museum are near the University grounds, and its collections are open daily to the public. Through its exhibitions there is opened to students an important means of culture.

The Corporation and Faculty of Brown University have agreed with the authorities of the Rhode Island School of Design upon a plan of coöperation in accordance with which certain courses at this School are open to students of the University and are counted towards a University degree. A description of these courses and a statement of the conditions under which they may be elected will be found in the list of courses given by the Department of Art, on pages 75, 76. Students from the Rhode Island School of Design are admitted to any classes in Brown University for which they are found to be prepared.

THE AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS

In 1902 a number of the friends of the University, in recognition of the sixtieth anniversary of the graduation of the late Professor Harkness, one of the founders of the American School of Classical Studies at Athens, united in contributing to the School the sum of five thousand five hundred and fifty-five dollars, to establish a fund to be known as "The Albert Harkness Fund for the Benefit of Brown University." By the establishment of this fund, the privilege of free tuition in the School is secured for all adequately prepared graduates of the University. Any who desire detailed information regarding the School may obtain it by applying to Professor Poland or Professor Allinson, members of the Managing Committee of the School.

THE NEWTON THEOLOGICAL INSTITUTION

The Newton Theological Institution has entered into an agreement with Brown University whereby certain work done in the University, for which a mark of *C* has been awarded, or upon which the student passes an examination satisfactory to the Faculty of the Newton Theological Institution, will be credited toward graduation in the Theological course as follows: Biblical Literature and History 1, 2, 3, 4 (132 hours); 11, 12, 13, 14 (108 hours); 15, 16

17, 18 (112 hours); English 11, 12 (33 hours),—in all, 385 hours. The total number of prescribed hours in the Theological course at the Newton Theological Institution is 1485.

THE TRAINING OF TEACHERS

ARRANGEMENTS WITH THE BOARD OF EDUCATION OF THE STATE OF RHODE ISLAND

THE Board of Education of the State of Rhode Island under act of the Legislature has entered into coöperation with Brown University for the professional instruction of college graduates who desire to become teachers in high schools, principals of high schools or elementary schools, or superintendents, and of those who already hold such positions. For this purpose the state appropriates annually five thousand dollars. A part of this sum is employed in maintaining graduate courses in education. Part is expended in maintaining scholarships covering full tuition for a year of graduate work for the degree of Master of Arts. Holders of these scholarships must make Education their major subject, and their courses must be approved by the Department of Education. Graduate scholarships for professional studies are also granted for less than a full year of work. Appointment to these scholarships is made by the State Board of Education. Candidates must conform to the requirements for graduate students regularly fixed by the University.

ARRANGEMENTS WITH THE CITY OF PROVIDENCE

The School Committee of the City of Providence, by special agreement, appoints a number of student-teachers in the Providence High Schools. Appointments are made from Graduates of Brown University or of other institutions of equal rank, who have pursued undergraduate courses in Education. These student-teachers are of two types. Those of the first type—of whom there are at least four, two of each sex—are occupied in the schools each day for somewhat more than half the usual school session. They receive a salary of five hundred dollars a year from the city. Those of the second type teach and observe about five hours a week. They have considerably more freedom in the choice of subjects and of hours than those of the first type; they receive no remuneration from the city. An unusual opportunity is thus afforded students to gain at the same time a knowledge of the theory of education and experience in the art of teaching. In making appointments to places as regular teachers of the lowest grade in the Providence High Schools, preference is given to those who have successfully completed this course of training as student-teachers. In this respect student-teachers of the second type have the same status before

the Committee as those of the first type. The practice teaching in the Providence High Schools is done under the following Supervising Teachers:

Charles E. Dennis, Ph.D., *Latin*
Harriet P. Fuller, A.M., *Latin*
J. Madison Gathany, A.M., *History and Civics*
Clarence H. Manchester, A.M., *English*
Edith H. Williston, A.M., *German*
Richard O. Dummer, A.M., *Physics and Chemistry*
Alden E. Hodgkins, B.S., *Mathematics*
Franklin R. Cushman, A.M., *History*
William H. Eddy, Ph.D., *Mathematics*
Charles E. Paine, A.M., *Latin*
Mildred A. Carnes, A.M., *English*
Edith T. Matthews, A.M., *Commercial Subjects*
Harold C. Newton, A.M., *English*

In a similar way a number of students are appointed to places in the Providence Grammar Schools. They receive a salary of three hundred and fifty dollars a year from the city. A limited number of Seniors and Graduates who are pursuing courses in Education are allowed to observe and teach in the Grammar Schools of the city in a way similar to that provided for student-teachers of the second type in the High Schools. Student-teachers are also assigned practice teaching in other schools in and near Providence.

PROVISIONS FOR THE PERSONAL WELFARE OF THE STUDENTS

PHYSICAL TRAINING

FOR the physical training of the students excellent opportunities are offered by the Lyman Gymnasium. It is thoroughly equipped with baths, dressing-rooms, bowling alleys, and all kinds of apparatus usually found in modern gymnasiums. Connected with the gymnasium is the Colgate Hoyt Swimming Pool, seventy-five feet in length by twenty-five feet in width, with a capacity of seventy-five thousand gallons. All the gymnasium work is under the supervision of the Professor of Physical Training, who makes a thorough examination and measurement of each student on entrance, and at other times by request. Special cases are referred to the University Physician. Such exercises are prescribed as may be necessary to give health, strength, and symmetrical development. No student is allowed to attempt any feat which is likely to result in injury. From the close of the Thanksgiving recess to the beginning of the spring recess, all first and second year students are required to attend gymnasium exercises three times a week. For other members of the University voluntary classes are provided. The class work consists of setting-up exercises, developing exercises, calisthenics, the use of clubs, dumbbells, wands, and single sticks, and general athletics. Instruction is given in swimming, and all students are required to pass a swimming test before graduation. In all the work, the aim is to develop health, strength, and vitality.

All branches of athletics are under the management of the Brown University Athletic Association, and are controlled by a board of undergraduates. The Faculty Committee on Student Organizations has general oversight of the deportment and scholarship of the members of the various teams. Lincoln Field adjoins the gymnasium, and is a convenient place of exercise for the class teams and the students in general. Andrews Field, which is a mile and a half from the University, offers the usual opportunities for all the University teams. The Marston Field House, the gift of Edgar L. Marston, is fitted with dressing-rooms, lockers, baths, and other accommodations.

MEDICAL CARE

Any student suffering from illness is expected at once to visit or summon the University Physician, Dr. Raymond G. Bugbee (223 Thayer Street. Office hours 2 to 4 p.m.; 7 to 8 p.m. Telephone Angell 2660-W.). When called to see students at their rooms, the duty of the University Physician is to make one call for diagnosis and prescription at the expense of the University. For con-

tinued attendance, students make their own arrangements with Dr. Bugbee or some other physician. All office calls are at the expense of students.

The University owns two free beds in the Rhode Island Hospital, to the occupancy of which the President of the University has the right of appointment. The first of these, The Charles Smith Bradley Free Bed, was established in 1872 by the payment to the hospital of four thousand dollars by the late Judge Bradley, a member of the Board of Fellows, thereby endowing a free bed "under the control of the President of Brown University for the time being, for the benefit of any officer or student of that institution who may have occasion for it." The second, The George Ide Chace Free Bed, was established by the payment to the hospital of four thousand dollars by the late Professor George Ide Chace; this foundation gives to the President of the University "the right to nominate and send to said hospital a patient, being a proper subject for treatment in said hospital according to the rules of the institution."

A patient sent to the hospital in accordance with the above arrangements is entitled to occupy a bed in one of the wards, and to receive the usual care, medical, surgical, and other attendance, and medicines and board, free of charge; but if he occupies a separate room and is under the care of an outside physician, he will be expected to pay the hospital from sixteen to twenty-three dollars per week.

STUDENT ADVISERS

As early as possible in the year the members of the Freshman class are divided into small groups, for each of which some member of the Faculty acts as special counselor. In making the assignments, the expressed preference of either student or adviser is followed whenever practicable. One meeting is usually definitely appointed; but the working of the system is entirely informal, and while it is desired that it shall lead to closer personal relations, it fulfils its chief aim if it permits each student to feel that in any emergency of his college life he is free to claim the counsel of a mature and interested adviser.

THE BROWN UNION

The chief aim of the Brown Union is to encourage a vigorous and healthy social life in the University, to bring undergraduates, Faculty, and Alumni into closer relation than would otherwise be possible, and to unite under one roof, with competent direction, the various activities of the students. Membership is open to students, Alumni, and Faculty, and includes almost all of the undergraduates. The Board of Management consists of the President of the Union, who must be a member of the Senior class, and four members appointed by the Corporation. The Union occupies Rockefeller Hall, which is also the headquarters of the Brown Christian Association. The building contains offices for the Athletic Board, the athletic teams, the musical and dramatic clubs, the

Brunonian, the *Daily Herald*, and the College Bookstore; rooms of various sizes for student meetings; and the usual conveniences of a social club, including large and handsomely furnished rooms for reading and lounging, an auditorium with a well-equipped stage, a dining-hall and lunch-room, a billiard room and a barber shop. In coöperation with the Christian Association, the Union gives entertainments on Tuesday evenings throughout the year, the programs including readings, musical or dramatic performances, and addresses of various sorts. The Secretary and Treasurer is Francis J. Brady, A.B.

THE BROWN CHRISTIAN ASSOCIATION

The purpose of this Association is to unite all men who cherish Christian ideals in the service of their fellow-men. It welcomes to membership all men who are connected with the University. Among its activities are frequent meetings for the discussion of religious, philanthropic, vocational, and educational problems and for devotional purposes; the arrangement of conferences and interviews with visiting speakers; coöperation with the churches in religious and social work. It maintains an Information Bureau for new students at the beginning of the college year. All communications relative to the Association or to the Information Bureau should be addressed to John B. Gibson, A.M., General Secretary of the Association. His offices are Rooms J and K, Rockefeller Hall. Rooms L, M, and N are specially designated for the various activities of the Association.

The University and the Christian Association coöperate in offering to the students the aid of the Employment Bureau in securing employment for undergraduates by business houses and residents of the city. Students desiring work of any kind should register with the Secretary, Mr. Gibson.

RELIGIOUS SERVICES

A chapel service is held in Sayles Hall every week day at 9 a.m. The President usually conducts the exercises. Attendance is required of undergraduates.

During the winter a series of vesper services is held in Sayles Hall on Wednesday afternoons at five o'clock, open both to students and to the public.

DORMITORY ACCOMMODATIONS

IN the University dormitories there are in all one hundred and twenty-seven single rooms and thirty-three suites. The rooms in Maxcy Hall and Caswell Hall are for this year only provided with furniture by the University; after the present academic year all dormitory rooms will be let unfurnished. A table showing the rent and location of the dormitory rooms is printed in the

Appendix. The prices there given include rent, heat, and service for the college year, but not lighting; there is a meter for each room, and the occupants are charged for the amount of light used.

Each student renting a room must sign a contract therefor in the form given below, on which surety may be demanded, binding him to pay or cause to be paid the rent of the room through the entire year. Not more than two students are allowed regularly to occupy a room or suite. No sub-letting of rooms will be permitted. Where two students rent a room together, each must sign a contract for half the room expenses. This obligation is not impaired by the student's removal from the University, whatever the cause of such removal.

The following is a contract between Brown University, party of the first part, and the undersigned, party of the second part. I hereby engage room No. in ; the same not to be occupied by any other person without consent of the party of the first part; and I bind myself to pay or cause to be paid to the Registrar of Brown University the entire rent, including heat and service, amounting to $ for the college year beginning September, 191

It is a part of this agreement that I shall be held responsible for all damage or defacement of such room, ordinary wear excepted; also that disuse of the room by me on account of illness, or in case registration is refused me owing to low standing or bad conduct, does not impair the obligation of this contract.

*Signed*_____

This day of 191 .

When the University holds full contracts for a room, the tenant or tenants may admit to the use of the room in the daytime one or two students, but not more than two. The names of any such sub-tenants must be reported to the Registrar as soon as the arrangement for sub-tenancy is made. For each sub-tenant the University makes an extra charge of $1.50 a semester for service. This sum is paid by the tenant-in-chief, if there is but one; if there are two, each pays half.

All rooms not assigned for 1918–19 before May 6, 1918, will be disposed of at a drawing on May 20 at 4 p.m. Men intending to enter college in September can arrange to be represented at the drawing by notifying the Registrar in advance.

UNIVERSITY FEES

For Students who entered before September, 1917

FEES FOR UNDERGRADUATES. *Tuition:* $76.50 a semester; $153 a year. *Graduation fee* (Senior year only): $8.

Special students who are taking courses amounting to less than fifteen hours a week pay in proportion to the actual amount taken.

FEES FOR RESIDENT GRADUATE STUDENTS. *Tuition:* $75 a semester; $150 a year. *Graduation fee:* for the degree of Master of Arts, $15; for the degree of Master of Science, $15; for the degree of Doctor of Philosophy, $25.

Graduate students who are taking courses amounting to less than fifteen hours a week pay $15 a semester for each three-hour course.

A candidate for the degree of Master of Arts who without remitting his studies becomes a candidate for the degree of Doctor of Philosophy, is credited with whatever graduate tuition he has already paid for courses that are allowed to count toward the higher degree.

LABORATORY FEES. In addition to the fees mentioned above, charges are made for laboratory courses, covering the cost of ordinary supplies; special supplies and breakage are charged extra. Regular laboratory fees are as follows:

Biology: $4.50 a semester for courses 1, 2; 3, 4; 5, 6; 7, 8; 9, 10; 12; 13, 14; 15, 16; 17, 18; 35, 36.

Botany: $1.50 a semester for courses 1, 2; 20; $4.50 a semester (for each three hours of credit) for courses 3, 4; 5, 6; 11, 12; 13, 14; fee for course 7, 8 depends upon the nature of the work taken.

Chemistry: $4.50 a semester for course 1, 2; $7.50 a semester for courses 3, 4; 5, 6; 7; 9; 10; 12; 13, 14; 32; $7.50 a semester (for each three hours of credit) for courses 21, 22; 23, 24; 25, 26; 29, 30; $12.50 for course 8 (for six hours of credit); $3.75 for course 8*a* (for three hours of credit); $2.50 a semester for courses 15, 16; 17, 18.

Electrical Engineering: $2.50 a semester for courses 1; 2; 3; 9; 10.

Geology: $1.50 a semester for courses 1; 4; 8; 15; $3 a semester for course 9, 10.

Mechanical Engineering: $7.50 a semester for courses 1; 2.

Physics: $6 a semester for courses 5, 6; 11, 12; 25, 26; $4 a semester for course 21, 22; $8 a semester for course 23, 24.

SPECIAL FEES. At the beginning of the second semester all students occupying dormitory rooms or taking laboratory courses must, in addition to the payment of the above amounts, make a deposit of $5 toward charges for light or breakage during that semester.

Candidates for a first degree who do not pay four years' full tuition fees must pay for all extra courses counted toward the degree at the rate of $7.50 a semester for each three-hour course. This payment must be made at the beginning of the semester in which the work for the degree is to be completed. This rule does not apply to courses credited from other institutions.

Candidates for the degree of Master of Arts or Master of Science who do not pay full tuition fees for one year, and candidates for the degree of Doctor of Philosophy who do not pay full tuition fees for two years, must pay for all extra courses counted toward the degree at the rate of $7.50 a semester for each three-hour course. This payment must be made at the beginning of the semester in which the work for the degree is to be completed. This rule does not apply to courses credited from other institutions.

NEW UNIVERSITY FEES

For Students entering in September, 1917, or thereafter

For all students entering in September, 1917, or thereafter (whether admitted to the Freshman class, or to advanced standing, or as special students, or as graduate students), the annual charge for tuition will be $175. No charge will be made for incidentals or matriculation. A detailed statement follows:

FEES FOR UNDERGRADUATES. *Tuition:* $87.50 a semester; $175 a year. *Graduation fee* (Senior year only): $10.

Special students who are taking courses amounting to less than fifteen hours a week pay in proportion to the actual amount taken.

FEES FOR GRADUATE STUDENTS. *Tuition:* $87.50 a semester; $175 a year. *Graduation fee:* for the degree of Master of Arts, $15; for the degree of Master of Science, $15; for the degree of Doctor of Philosophy, $25.

Graduate students who are taking courses amounting to less than fifteen hours a week pay $17.50 a semester for each three-hour course.

A candidate for the degree of Master of Arts who without remitting his studies becomes a candidate for the degree of Doctor of Philosophy, is credited with whatever graduate tuition he has already paid for courses that are allowed to count toward the higher degree.

LABORATORY FEES. In addition to the fees mentioned above, charges are made for laboratory courses covering the cost of ordinary supplies; special supplies and breakage are charged extra. For the schedule of laboratory fees see page 172.

SPECIAL FEES. All students occupying dormitory rooms or taking labora-

tory courses must, in addition to the payment of the above amounts, make a deposit of $5 toward charges for light or breakage during the semester.

Candidates for a first degree who do not pay four years' full tuition fees must pay for all extra courses counted toward the degree at the rate of $8.75 a semester for each three-hour course. This amount must be paid with the regular bill for the semester preceding the completion of the degree work. This rule does not apply to courses credited from other institutions.

Candidates for the degree of Master of Arts or Master of Science who do not pay full tuition fees for one year, and candidates for the degree of Doctor of Philosophy who do not pay full tuition fees for two years, must pay for all extra courses counted toward the degree at the rate of $8.75 a semester for each three-hour course. This amount must be paid with the regular bill for the semester preceding the completion of the degree work. This rule does not apply to courses credited from other institutions.

ESTIMATE OF ANNUAL EXPENSES

For Students entering in 1917

The following is an approximate estimate of the annual expenses of a student who occupies a dormitory room (with a room-mate). It does not include the graduation fee of $10 in the fourth year, nor outlay for clothes and traveling or other strictly personal expenses.

	Lowest	*Moderate*	*Liberal*
Tuition	$175.00	$175.00	$175.00
Room rent, including heat and service	53.50	75.00	187.50
Board (36 weeks)	162.00	200.00	250.00
Textbooks and laboratory expenses	15.00	25.00	40.00
Total	$405.50	$475.00	$652.50

Students who need to earn money find many opportunities for doing so in the city. See Undergraduate Employment Bureau, page 170.

PAYMENT OF UNIVERSITY BILLS

Before registration, at the beginning of each semester, every student must pay at the Comptroller's Office, the sum of twenty-five dollars on account of his bill for the semester.

As soon as possible after the beginning of each semester a complete bill will be sent to each student at his college address (unless otherwise requested), and students will be held responsible for college addresses as filed by them. This bill will include the semester charges for tuition, room rent, laboratory fees,

and any special fees, including deposits, which may properly be charged. The twenty-five dollar payment made before registration and the amount of scholarship aid, if any, will be deducted. The net bill must be paid before 5 p.m. on the twentieth day of the semester. A student whose bill is not paid at this time will be dropped from the University.

Students who are employed in any capacity by the University must pay their bills without reference to the amount to be received for such service. Payment for service will be made by check at the middle and at the end of each semester.

Candidates for graduation in any year must pay all graduation fees with the bill for the second semester of that year.

FINANCIAL AID TO STUDENTS

THE aid which Brown University gives to students is of three kinds: awards from fellowship, scholarship, and aid funds; loans; payment in cash for services rendered. The awards from the scholarship and aid funds are made under the following conditions: an applicant must be of good moral character; he must be in need of financial assistance; he must have been admitted without conditions to the Freshman class or to advanced standing, as a candidate for a degree. The scholarship or aid will be withdrawn from a recipient who is placed under college discipline or who fails to maintain creditable standing in his studies (a grade of *C* is expected).

The administration of the scholarship and aid funds is in the hands of a committee of the Faculty, annually appointed by the Corporation. Applications for scholarships for a given academic year should be filed with the Secretary of the Committee on Scholarships as soon as possible after May 1. The Committee will take action early in June on all applications received before June 1. Action on late applications is generally taken as soon as all the requisite information is received. The President has charge of the administration of fellowships; service appointments are in charge of the Committee on Student Service.

FELLOWSHIP FUNDS

THE GRAND ARMY OF THE REPUBLIC FELLOWSHIP. The income of a fund of ten thousand dollars given by the Grand Army of the Republic, Department of Rhode Island, is annually awarded to a graduate of Brown University, of acknowledged excellence in scholarship and character. The recipient must be enrolled as a candidate for the degree of Doctor of Philosophy or have obtained that degree, must reside at Brown University, and must devote himself exclusively to advanced liberal study. Holders of the fellowship are appointed by the President of the University, subject to

the approval of the Board of Fellows. Appointments to the fellowship are regularly made for one year, but incumbents of special diligence or ability may be reappointed. Descendants of Union Veterans of the Civil War are always to be preferred when the other qualifications of candidates are equal. The political or religious preferences of candidates cannot be taken into consideration. The President is authorized to make such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper. Applications for this fellowship must be made in writing on blanks furnished by the Dean of the Graduate Department, and must be in the hands of the President not later than April 15. The Grand Army of the Republic Fellow for 1917–18 is

HENRY WEEDEN UNDERWOOD, JR., SC.M.

THE OLIVER CROMWELL GORTON ARNOLD BIOLOGICAL FELLOWSHIP. This is a fund of ten thousand dollars given by Dr. Oliver Henry Arnold in memory of his father. The income, or any part of it, is given annually, according to the judgment and the discretion and under the direction of the President and the head of the Biological Department, for post-graduate work, to any student, either male or female, of good character, who is a graduate of any collegiate institution of recognized standing and who has shown during his or her college course great diligence, talent, and marked ability in biological work. If in any year there should be more than one applicant for this fellowship, the President and the head of the Biological Department select a beneficiary from the results of a competitive examination as well as from the known ability of the student to conduct original research giving promise of a successful career. Should there be more than one candidate of exceptional merit, the income of this fund may be divided between two of them, but it may be given to one of them should it seem best to the President and the head of the Biological Department. In awarding this fellowship, other qualifications being equal, the candidate most in need of assistance will be selected. Should any beneficiary prove in any manner unworthy of assistance, it shall be discontinued, and should a beneficiary give evidence of great ability for conducting original research and a promise of large usefulness in his or her professional career, this income may be continued to him or her for one, two, or three years, according to the judgment of the President and the head of the Biological Department. Should the income of this fund, or any part of it, not be used in any year, the unused amount shall be set aside as a fund to be used in any succeeding year in assisting any student in post-graduate research work in the Biological Department who shall have all the qualifications mentioned in the preceding sections; or it may be used for any of the necessary and legitimate expenses for the advancement of research work in the Biological Department. The Arnold Fellow for 1917-18 is

SAMUEL EARL LONGWELL, A.B.

THE MORGAN EDWARDS FELLOWSHIP. This is a fund of ten thousand dollars given by the Philadelphia alumni of Brown University. Whenever the income from this fund shall amount to one thousand dollars it may be awarded by the President and Faculty of the University to an alumnus of not more than ten years' standing, for the pursuit of original research in any department of knowledge approved by the President and Faculty. The work may be carried on in any part of the world where it seems that the best facilities exist for the study of the subject selected. The award is to be made solely upon the ground of past merit and future promise. In exceptional circumstances the appointment may be continued for one or two additional periods of six months. Applications for consideration as candidates for this fellowship should be addressed to the President of the University, from whom further details may be obtained. This fellowship is held by

Byron Lillibridge West, Sc.M.

THE EMMA JOSEPHINE AYER ARNOLD ARCHAEOLOGICAL FELLOWSHIP. This is a fund of ten thousand dollars given by Dr. Oliver Henry Arnold in memory of his wife. It is primarily for the Women's College (see page 240), but if no graduate of the Women's College fulfils the conditions, the income of this fund may be paid, with the consent of the Dean of the Women's College, for one year, to some male student fulfilling the conditions. The candidate must be approved by the President of the University and the professors of the Greek and Latin Departments. For 1917–18 this fellowship was awarded to

Robert Gustavus Daniel Ljunggren

TEACHING FELLOWSHIPS. In addition to the foregoing a number of Teaching Fellowships have been established, information regarding which will be furnished by the President.

SCHOLARSHIP AND AID FUNDS

FUNDED SCHOLARSHIPS. There are now eighty-one scholarships of one thousand dollars, each yielding the beneficiary forty to fifty dollars annually. With the exceptions indicated below, they bear the names of their founders. The income is awarded annually according to the conditions attaching to each fund.

The Eleven Nicholas Brown Scholarships

The Four University Scholarships

The President's Scholarship, founded by President Sears.

The Six Alvah Woods Scholarships

The James H. Duncan Scholarship

The Isaac Davis Scholarship

The Arnold Whipple Scholarship, founded by Mrs. Arnold Whipple.

The Ephraim Wheaton Scholarship, founded by James Wheaton.

The Joseph Brown Scholarship, founded by Mrs. E. B. Rogers.

The Gardner Colby Scholarship

The Crocker Scholarship, founded by Robert H. Ives and Thomas P. Ives, Trustees.

The Clark Scholarship, also founded by the Messrs. Ives.

The George K. and H. A. Pevear Scholarship

The Joseph Charles Hartshorn Scholarship

The Rogers High School Scholarship, founded by William Sanford Rogers.

The James Wheaton Scholarship

The Charles Thurber Scholarship

The Pardon Miller Scholarship, founded by Mrs. Ann E. Miller.

The Hezekiah S. Chase Scholarship

The William Bucknell Scholarship

The Austin Merrick Scholarship, founded by Mrs. Olive E. Merrick.

The Horatio N. Slater Scholarship

The Earl P. Mason Scholarship

The Newport Scholarship, founded by William Sanford Rogers.

The Alexis Caswell Scholarship

The Three Henry Jackson Scholarships

The Mumford Scholarship, founded by Mrs. Louisa D. Mumford.

The Albert Day Scholarship

The Henry P. Kent Scholarship

The Romeo Elton Scholarship

The Five Annie E. Waters Scholarships

The Lewis Fairbrother Scholarship, founded by Mrs. Lewis Fairbrother.

The George Lawton Scholarship

The John P. Crozer Scholarship, founded by Mrs. Margaret Bucknell.

The James Y. Smith Scholarship

The Two S. S. Bradford Scholarships

The Francis R. Arnold Scholarship

The Cornelia E. Green Scholarship

The Two Henry Clifford Knight Scholarships, founded by Miss Amelia S. Knight, in memory of her brother, a member of the class of 1875.

The Thurston Scholarship, founded by the Hon. Benjamin F. Thurston, of the class of 1849.

The Rufus Babcock Scholarship, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, the Rev. Rufus Babcock, of the class of 1821.

The James Fletcher Blackinton Scholarship, founded by Mrs. Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton, of the class of 1847.

The Samuel White Duncan Scholarship, founded by Mrs. Mary Duncan Harris.

The Five William A. White Scholarships, founded by Mrs. Abby S. A. White, in honor of her husband, William A. White, of the class of 1857.

The Richards Scholarship, founded by the Rev. William Coolidge Richards, of the class of 1837.

The Benjamin Hutchinson Judah Scholarship

The S. Dryden Phelps Scholarship, founded by the Rev. S. Dryden Phelps, of the class of 1844, the income to be given each year to some student who is preparing for the Baptist ministry.

The Eliot Loomis Collins Scholarship, founded by Clarkson A. Collins in memory of his son, Eliot Loomis Collins, of the class of 1910, "the income to be given each year to some member of the Junior class needing pecuniary aid, who may possess his characteristic qualities of earnestness of application, steadfastness of character, and cheerful personality."

The E. Benjamin Andrews Scholarship, founded by the class of 1898.

The Josiah Nelson Cushing Scholarship, founded by Samuel H. Tingley in memory of the Rev. Josiah Nelson Cushing, D.D., of the class of 1862, for forty years missionary in Burmah.

The Luther White Scholarship, founded by Mabel Adaline White, in memory of her father, the Hon. Luther White, of the class of 1864, "the income to be given to deserving students, to be selected by the college authorities, but preference to be given always to male and female descendants of the members of the class of 1864."

The Henry Lyon Scholarship, founded by William H. Lyon, of the class of 1868.

The Scholarship of the Class of 1895.

The Class of 1905 Scholarship, founded by the class of 1905, to be awarded to a student in the University "designated by a duly authorized committee of said class of 1905, subject to the approval of the President, or Acting President of Brown University."

The Lyman Partridge Scholarship, founded by Herbert G. Partridge, M.D., in memory of his father, the Rev. Lyman Partridge, of the class of 1863, the

income to be awarded to some promising young man, preference being given to a student coming from the Baptist church in one of the following places: Wakefield, R. I.; Sharon, Westminster, Westwood, Mass.

There are also the following scholarships of larger amounts:

The Two George J. Sherman Scholarships, paid from the income of a fund of two thousand five hundred and sixty-five dollars.

The Bartlett Scholarship of four thousand dollars, founded by Mrs. Elizabeth Slater Bartlett; the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise, by studious aim and by character and scholarship, of rising to distinction and usefulness."

The Glover Scholarship of five thousand dollars, founded by Henry R. Glover, "in memory of his father, Samuel Glover, of the class of 1808, and of his brother, Samuel Glover, Jr., of the class of 1839."

The Rebecca A. Wheeler Scholarship of fifteen hundred and seventy-one dollars; the income to assist some worthy student, preferably a candidate for the Baptist ministry.

The Scholarship of the Class of 1838 of thirty-eight hundred dollars.

The Joseph Charles Hartshorn Scholarship of two thousand dollars.

The Two Banigan Scholarships of three thousand dollars each, founded by Joseph Banigan, of Providence; the income as far as necessary to be used each year to defray the tuition of two students of the University.

The George Ide Chace Scholarship of five thousand dollars, founded by Professor George Ide Chace, the income to be assigned each year by the Faculty to some member of the Senior class needing the money, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character." If in the Senior class there chances to be no person fulfilling the requirements of this scholarship, the proceeds of the scholarship for that year must be appropriated to the purchase of books for the Library of the University.

The Abby Wheaton Chace Scholarship of four thousand dollars, also founded by Professor George Ide Chace, the income to be assigned yearly by the Faculty to some member of the Junior class needing the money, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character." If in the Junior class there chances to be no person fulfilling the requirements of this scholarship, the proceeds of the scholarship for that year must be appropriated to the purchase of books for the Library of the University.

The John L. Lincoln Scholarship of twenty-five hundred dollars, founded by Abby G. Beckwith.

The Truman Beckwith Scholarship of twenty-five hundred dollars, founded by Abby G. Beckwith.

The Thayer Scholarship, founded by Edward C. Thayer, in honor of his father, Joseph Thayer, of the class of 1815; the income to be for the education of any young man or woman a resident of Uxbridge, Massachusetts, recommended by the selectmen and superintendent of schools there, needing pecuniary aid, and giving promise by character and scholarship of a life of usefulness. If there is no applicant from Uxbridge, the income may go to any applicant from Massachusetts who fulfils the conditions.

The Two Walter G. Webster Scholarships, founded by the Rev. Walter G. Webster, of the class of 1878; the income to go each year to two young men, members of the Freshman class, holding the full diploma of the Classical High School of the City of Providence and duly matriculated for the degree of Bachelor of Arts; "the nomination to rest with the Principal of said school, and to be made on the basis of character and scholarship, due regard being had to the need of such assistance."

The S. W. Marston Scholarship of five thousand dollars, founded in the name of his father by Edgar L. Marston. This scholarship is open to any graduate of William Jewell College who may be recommended by the President of that institution.

The Three E. L. Marston Scholarships of five thousand dollars each, founded by Edgar L. Marston. The first scholarship is open to any graduate of La Grange College who may be recommended by the President of that institution. The second and third are open to graduates of Baylor University under similar conditions.

The Eaton Scholarship of two thousand dollars, founded in memory of her husband by Mrs. Caroline B. Eaton; the income to be used "in the aid of indigent Baptist young men having the ministry in view, preference being given to young men from New Hampshire."

The Alexander Farnum Scholarship of two thousand dollars, founded by the Rev. Augustus Woodbury; the income to be given to such student as the Faculty shall select, the primary condition being that such student shall have been prepared for college at Phillips Exeter Academy in Exeter, New Hampshire.

The Albert Harkness Scholarship of three thousand dollars, founded by Professor Albert Harkness; the income to be paid annually under the direction of the Faculty to some student of excellent character and high scholarship who shall be in need of pecuniary aid.

A Friend's Scholarship of five thousand dollars, founded by a friend of the University, the income to be awarded annually to some student in need of aid.

The Ellen Read Newell Scholarship of three thousand dollars, founded by George W. Newell in memory of his wife; "the income to be expended (1) in behalf of some worthy graduate of the Pawtucket High School who

may need financial help, (2) to such other meritorious student as the President or Faculty may designate."

The Fred Homer Williams Scholarship of fifteen hundred dollars; the income to be awarded to some needy and worthy young man, preference being given to a graduate of the High School in Foxborough, Massachusetts.

The George Woodley Hogg Scholarship of five thousand dollars, in memory of George Woodley Hogg, of the class of 1894, the income to be awarded annually to either one or two students at the discretion of the Scholarship Committee, preferably, though not necessarily, to students residing in the State of Rhode Island.

The David W. Hoyt Scholarship of twenty-seven hundred dollars, founded by the Alumni Association of the Providence English High School; the income to go each year to some young man or woman designated by the Principal or the Acting Principal, for the time being, of the Providence English High School, subject to the approval of the President or the Acting President of Brown University.

The Jacob Shartenberg Scholarship, yielding the recipient one hundred and fifty dollars a year, founded by Jacob Shartenberg "to assist in paying the expenses of some deserving student in either the Sophomore, Junior or Senior class, . . . such student to be selected by the Faculty."

The Dyer-Gurney-Reed Scholarship of two thousand dollars, founded by Charles F. Reed, of the class of 1885, the income to be awarded annually to (1) a male descendant of any member of the class of 1885; (2) a male student from the State of Massachusetts, preferably from Whitman, Abington, or Plymouth.

AID FUNDS. There are ten aid funds at the disposal of the University. The income of these funds is divided into scholarships of varying amounts, which are awarded under the general conditions applicable to all scholarships. They are as follows:

The Aaron Lucius Ordway Memorial Fund of twenty-five hundred dollars, founded by Samuel H. Ordway in the name of his father, "the income to be used in the discretion of the President to assist regular students of the University who are in need of assistance. Each student who accepts such assistance shall in writing acknowledge the receipt of the same and pledge himself to repay the amount so received by him as soon as he can conveniently afford to do so, all sums so repaid to be added to the principal."

The Nancy Goodnow Fund of two thousand dollars, the income to be expended in assisting one or more students of the University who are preparing to be ministers of the Baptist denomination in the United States.

The Aid Fund, established by friends of the University in 1868 and now amounting to ninety-three hundred dollars.

The Daniel Wanton Lyman Fund for Students, established by Daniel Wanton Lyman and now amounting to nearly seventy-five thousand dollars.

The William Grosbeck Goddard Memorial Fund of five thousand dollars, founded by Col. Robert H. I. Goddard in the name of his son, "the income to be used by the President or Acting President of the University, in his discretion, to aid young men without adequate means to obtain an education. Each beneficiary shall give a receipt for all money received, and shall agree, without making any written pledge, to refund amounts received by him whenever he can do so conveniently."

The Edwin A. W. Harlow Fund, founded by Edwin A. W. Harlow, now amounting to ten thousand four hundred dollars, the income to be "for assisting poor young men of excellent moral character in the Academic Department."

The Robert H. Harlow Fund of three thousand dollars, founded by Robert H. Harlow, the income to be "for assisting poor young men of excellent moral character in the Academic Department."

The Benjamin Braman Fund of one thousand dollars, the income to be granted annually to some worthy Christian student of limited means.

The James Stanton Kenyon Memorial Fund of three thousand dollars, founded by his daughters, Elizabeth Burrows Kenyon Wilkinson and Mary Stanton Kenyon, the income to be used to aid worthy young men of high personal character and of diligent application to their studies. Each beneficiary shall agree, without making any written pledge, to refund amounts received by him whenever he can do so conveniently, all sums so repaid to be added to the principal.

The Robert James Yorkston Meckel Memorial Fund, founded by Miss Mary Wehmeyer, the income to be added to the principal until such time as the fund amounts to one thousand dollars. At that time "the income is to be used by the University in helping students who in the judgment of the President of the University may need assistance in carrying on their studies at Brown University."

UNIVERSITY SCHOLARSHIPS. In addition to the income of the Scholarship and Aid Funds, there have been established University scholarships, which are of three grades:

(1) A small number yielding each $75 a semester or $150 a year, awarded to a few students of especially high scholarship.

(2) A number yielding each $50 a semester or $100 a year.

(3) A number yielding each $25 a semester or $50 a year, used in part to supplement the smaller endowed scholarships, and also for those students needing relatively less assistance.

It is expected that the holders of these scholarships will regard them as

in a certain sense loans, and will at some time after graduation return to the treasury the amount awarded, to be used for the increase of the permanent scholarship funds, or that they will in some other way contribute to the endowment of the University.

LOAN FUNDS

I. The Alumni Loan Fund, now amounting to about forty-three hundred dollars, was established by the Alumni Association at the Commencement of 1900 by a vote transferring to the Treasurer of the University the fund formerly known as the Brown Loyalty Fund, to be used as a loan fund for students. The principal of this fund is loaned at interest, to be repaid as agreed upon in each instance.

II. There is another fund, of several hundred dollars, which is loaned in small amounts without interest, for short periods, to students unexpectedly needing temporary assistance.

SERVICE

The University is able to give employment to a number of students as monitors, assistants in the libraries and laboratories, members of the choir, clerks in the Registrar's office, and so forth. Applications for employment of this kind should be filed with the Committee on Student Service. See also the statement concerning the Undergraduate Employment Bureau, page 170.

PREMIUMS, PRIZES, AND HONORS‡

FOR EXCELLENCE IN UNIVERSITY STUDIES

The William Gaston Scholarship. This fund of five thousand dollars was established in 1899 by the widow and children of the Hon. William Gaston, LL.D., of the class of 1840. Its income is awarded annually by the Faculty solely upon merit, without reference to financial condition. For 1917–18 this scholarship was awarded to

Charles Gurney Edwards

The Gaston Prize Medal for Excellence in Oratory. From the income of a fund of three thousand dollars established in 1894 as a memorial to the Hon. William Gaston, LL.D., of the class of 1840, a gold medal is an-

‡ The premiums and prizes here enumerated are, with the exception of the *Society of Colonial Dames Prize in American History* (see page 186), intended for men. The students of the Women's College are, however, entitled to compete in all examinations for premiums and prizes offered in Brown University. In case any woman is entitled to a first premium, one is awarded her by the Dean of the Women's College. For premiums awarded to women in 1917, see page 243.

nually awarded to the member of the graduating class who delivers the best original oration in English. The orations are not to exceed fifteen hundred words. In order to compete for the prize, a student must deposit with the Registrar a typewritten copy of his oration, signed with an assumed name, six weeks before the public competition. From these orations a committee appointed by the President of the University selects not more than six for delivery. The committee of award in the final contest consists of three members appointed by the President. In making the award, regard is given to thought, style, and delivery. The winner of the medal is entitled to deliver an oration at Commencement. In 1918 the orations must be deposited with the Registrar on or before April 13; the public competition will be held on May 15. In 1917 no award was made.

The Carpenter Premiums, two in number, are derived from the income of funds established in 1867, one by Thomas Carpenter and one by Lydia Carpenter. They are assigned at the end of the Senior year to the two members of the Senior class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life,—ability, character, and attainment." In 1917 these premiums were awarded to

Thomas Baird Appleget *and* William Harris Reese

The Howell Premium. The income of a fund amounting to one thousand dollars, presented to the University in 1867 by Gamaliel Lyman Dwight, is given at the close of the first semester of the Senior year to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for the premium, a student must, in each semester from the beginning of the Freshman year to the end of the first semester of the Senior year, take at least one course in one of the following subjects: Mathematics, Physics, Mechanics, Astronomy. In 1917 this premium was awarded to

Gilbert Congdon Carpenter, Jr.

The Foster Premium in Greek is derived from the income of a fund of three thousand dollars bequeathed to the University in 1880 by the Hon. Lafayette Sabine Foster, of the class of 1828. In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's *Iliad*, or in the *Oration on the Crown* by Demosthenes." The examinations are open to the members of the Senior class. The next examination will be held on Wednesday, May 1, 1918; candidates will be examined in the *Oration on the Crown*. In 1917 the premium was awarded to

Robert Gustavus Daniel Ljunggren

The Lucius Lyon Premiums in Latin are derived from the income of a fund of five thousand dollars presented to the University in 1893 by Mrs. Caroline L. Lyon, in memory of her husband, Lucius Lyon, of the class of 1844. Five-tenths of the income each year forms the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year must be added to the fund. The premiums are awarded on the basis of a special examination held during the second semester of the Senior year. In 1918 the examination will be held on Wednesday, May 15. The examination may relate to any or all of the following subjects: the Latin language, Roman literature, Roman history. The President of the University and the head of the department of Roman Literature and History prescribe the conditions for admission to the examination. In 1917 the premiums were awarded as follows:

The first premium to Thomas Bryant Smith
The second premium to Clarence Henry Woodmansee

The Class of 1873 Prize. The income of a fund of one thousand dollars, presented to the University by the class of 1873, is awarded each year to that member of the Senior class who writes the best essay on a historical or a philosophical subject. The subjects, which are of a historical nature one year and of a philosophical nature the next, are assigned by the respective departments. In 1918 the essays must be deposited with the Registrar on or before June 1. For 1917–18 the subject is: *Belgium as a Factor in British Foreign Policy, 1790–1914.* For 1916–17 the subject was: *The Ethics of Nationalism and of Internationalism.* The prize was awarded to

John George Peterson

The Bishop McVickar Prizes were founded by the late Rt. Rev. William N. McVickar, Bishop of the Protestant Episcopal Diocese of Rhode Island, and are continued by his sister, Miss E. C. McVickar. A first prize of fifty dollars and a second prize of twenty-five dollars are awarded for the best essays of from three to four thousand words on a subject assigned by the department of Biblical Literature. The competition is open to undergraduate men who are, or have been, students in the department of Biblical Literature. Those who intend to compete must give their names to the head of the department not later than March 1, and the essays, under an assumed name, must be delivered to the Registrar not later than the first Saturday in May (for 1918 the date is May 4). For 1917–18 the subject is: *Jesus and the Ideals of the Prophets.* For 1916–17 the subject was: *The Rise of Historical Literature among the Hebrews and Greeks.* The first prize was awarded to:

Luke Augustus Woodbury

The Society of Colonial Dames Prize in American History. The income of a fund of fifteen hundred dollars, known as The Roger Williams Fund

established by the National Society of Colonial Dames in the State of Rhode Island and Providence Plantations, given to the University in 1906, is awarded each year as a prize for the best essay on a subject in American colonial history. The competition is open to Juniors, Seniors, and Graduates, and to men and women on equal terms. Essays must show independent use of authorities, and should, in general, extend to at least four thousand words. Those who intend to compete should give their names to the head of the department of History not later than March 1, and the essays, under an assumed name, must be delivered to the Registrar not later than the second Saturday in May (for 1918 the date is May 11). The name of the successful competitor is announced at Commencement. For 1917–18 the subject is: *The Charter of Rhode Island and Providence Plantations, 1663: An Account of its Origin.* For 1916–17 the subject was: *The Boundary Controversy between Rhode Island and Connecticut after 1663.* The prize was awarded to

Isaac Yale Olch

The Peace Society Prizes are offered by the Rhode Island and Providence Plantation Peace Society (founded in 1818) as follows: A first prize of fifty dollars and a second prize of twenty-five dollars to competitors from the Junior and Senior classes who in a public contest deliver the best two original speeches on some phase of the subject: *The Guarantees of a Permanent Peace following the Present Conflict.* The speeches must not exceed twelve hundred words in length, and will be judged in regard to thought, style, and delivery, by a committee of three appointed by the President. Competitors must enter their names with the Professor of Public Speaking not later than February 15, 1918. The contest will be held in Manning Hall on Wednesday evening, March 27. If the number demands, a preliminary contest will be held at least two weeks before the final competition. If less than four compete, no second prize will be awarded. In 1917 the first prize was awarded to

Thomas McIntyre, Jr.

The Menorah Prize, for the best essay on *The Sources of Jewish Immigration*, was awarded in 1917 to

Arthur Joseph Levy

The Bennett Prize of twenty-five dollars was established in 1905 by Philo Sherman Bennett, for the best essay discussing the principles of free government. The essays of from three to six thousand words in length must be typewritten, signed with an assumed name, and deposited with the Registrar before 1 p.m. on Monday, April 22. The judges, three in number, are appointed by the President. For 1917–18 the subject is: *Should the Federal Constitution be amended by vote of a simple majority of the states or by vote of three-fourths of the states?* In 1917 no award was made.

The Class of 1880 Prizes, established in 1905 by the class of 1880, are awarded each year to those undergraduates who show the most ability in presenting arguments on some current question of importance to the University. The subject for discussion, the time, and the manner of presentation are all determined by representatives of the English department in consultation with the president of the Debating Union and the editors-in-chief of the *Brunonian* and the *Brown Daily Herald.* The prizes are awarded by a board of five judges: two are appointed by the President, two by the undergraduate members of the committee in charge; the fifth is a member of the English department.

In 1917–18 a first prize of thirty-five dollars and a second prize of twenty-five dollars will be awarded to the students who show the most ability in a public discussion of the subject. This discussion will be held on December 12; a preliminary discussion will be held on December 5. A first prize of twenty-five dollars and a second prize of fifteen dollars will be awarded to the writers of the best argumentative essays of from three thousand to five thousand words upon the same subject. The essays must be signed with an assumed name; they must be in the hands of the Registrar before 4 p.m., December 8. Either prize for the essay may be withheld if the judges deem it best. A student may enter both competitions. For 1917–18 the subject is: *Should the fraternities at Brown be permitted to conduct dining rooms in their own quarters?* For 1916–17 the subject was: *Should the Bucklin system of preferential voting be adopted in class elections at Brown?* The prizes were awarded as follows:

The first prize for the discussion to George Julius Heidt
The second prize for the discussion to Arthur Joseph Levy
The first prize for the essay to John Brown Riddock
The second prize for the essay to George Julius Heidt

The Hicks Prizes for Excellence in Debate, established by the Hon. Ratcliffe Hicks, of the class of 1864, are annually awarded as follows:

I. Two prizes of fifty dollars each, one for each of the two sets of representatives of the University in the intercollegiate debates. In each instance the prize is given to the man showing the greatest ability both in the preliminary trials and in the final trial. In awarding the prize, regard is given to thought, style, and delivery. The judges are at least three in number, appointed by the Debating Union. In 1917 these prizes were awarded to

George Julius Heidt *and* Fred Bartlett Perkins

II. A first prize of thirty dollars and two second prizes of twenty dollars to the students showing the greatest ability in a public debate between the representatives of the Junior and Sophomore classes. Each class is represented by three men, whom a committee appointed by the President of the University chooses from the preliminary contestants at least three weeks before

the public debate. This committee also determines the subject and makes the necessary arrangements. The judges in the public debate are three, — one appointed by the President, and one by each group of competitors. The prizes are awarded irrespective of the decision upon the debate as a whole. Any one prize may be withheld if no one is adjudged to deserve it. In making the award, regard is given to thought, style, and delivery. In 1918 the public debate will be held on May 7. In 1917 these prizes were awarded as follows:

The first prize to George Julius Heidt
The second prizes to Walter Adler
and William Henry Edwards

The Hicks Prize in English, awarded at the end of the first semester of the Senior year to the student having the highest standing in the courses in English literature and language. In 1917 this prize was awarded to

Thomas Baird Appleget

The Dunn Premium. The income of a fund of one thousand dollars, presented to the University in 1872 by pupils and friends of Professor Robinson Potter Dunn, is given, at the end of the Junior year, to the student having the highest standing in the courses in rhetoric, English composition, and public speaking. In making the award, regard is given to the number of such courses taken as well as to the rank attained in them. In 1917 this premium was awarded to

Carroll Burton Larrabee

The J. Ackerman Coles Prizes. The income of a fund of one thousand dollars, presented to the University in 1907 by Dr. J. Ackerman Coles, is expended for prizes for the encouragement of intramural athletic sports.

The Carpenter Prizes for Elocution, derived from the income of a fund established in 1867 by Thomas Carpenter, are awarded each year to the three students to whom are assigned the first, the second, and the third rank of excellence in elocution. The competition is open to all members of the Sophomore class, and to those members of the Junior class who did not enter the preliminary competition in their Sophomore year. The selections declaimed may be either prose or verse. They must be approved by the Professor of Public Speaking, with whom competitors must enter their names not later than January 21. A preliminary contest for the purpose of selecting the speakers takes place in the early part of the second semester; all arrangements for it are in the hands of the Professor of Public Speaking. The committee of award consists of five members, — the Professor of Public Speaking, who is the chairman, two persons selected by the Corporation, and two persons selected by the Sophomore class; no one who is or has been a member of the class is eligible to membership in the committee. In 1918

the contest will be held in Manning Hall on April 18. In 1917 these prizes were awarded as follows:

The first prize to Rudolph John Chauncey Fisher
The second prize to George Julius Heidt
The third prize to Reginald Gordon Harris

FOR EXCELLENCE IN PREPARATORY STUDIES

The President's Premiums, derived from the income of a fund presented to the University in 1843 by President Wayland, are awarded each year to those members of the Freshman class who upon examination are found to excel in the studies required for admission to the University in Greek and Latin. First and Second Premiums are awarded in each of these studies. The examinations deal with the general principles and laws of the languages involved rather than with irregularities and exceptions. Special importance is attached to the pupil's familiarity with the subject-matter of the works read, and to his ability to translate with accuracy and facility into clear, appropriate, and idiomatic English. The examination in Greek is held in 5 Maxcy Hall at 2.30 p.m. on the second Wednesday of the first semester (October 2, 1918), and that in Latin in 1 Sayles Hall at 2.30 p.m. on the third Wednesday (October 9, 1918). The award of these premiums in 1917 was as follows:

In Greek *the first premium to* Reginald Stevens Kimball, *instructed in the Rogers High School, Newport.*

The second premium to Leon Goldberg, *instructed in the Classical High School, Providence.*

In Latin *the first premium to* Clair McKinley Conzelman, *instructed in the High School, Bristol, Conn.*

The second premium to Leon Goldberg, *instructed in the Classical High School, Providence.*

The Hartshorn Premiums in Mathematics, derived from the income of a fund of one thousand dollars presented to the University in 1872 by Joseph Charles Hartshorn, of the class of 1841, are awarded each year to the two members of the Freshman class who upon examination are found to excel in the mathematical studies required for admission to the University. The examination is held in 26 Wilson Hall at 2 p.m. on the fourth Wednesday of the first semester (October 16, 1918). The award of these premiums in 1917 was as follows:

The first premium to William Worth Hall, *instructed in the Classical High School, Providence.*

The second premium to Everett Leprilete Sweet, *instructed in the Classical High School, Providence.*

The Entrance Premiums in French, derived from the income of the President's Premium Fund, are awarded each year to the two members of the Freshman class who upon examination are found to excel in the French studies required for admission to the University. The examination is held in 1 Sayles Hall at 2 p.m. on the fifth Wednesday of the first semester (October 23, 1918). The award of these premiums in 1917 was as follows:

The first premium to Everett Leprilete Sweet, *instructed in the Classical High School, Providence.*

The second premium to Royal Bertrand Lord, *instructed in the High School, Pawtucket.*

The Caesar Misch Entrance Premiums in German are awarded each year to the two members of the Freshman class who upon examination are found to excel in the German studies required for admission to the University. The examination is held in 5 Sayles Hall at 2 p.m. on the sixth Wednesday of the first semester (October 30, 1918). The award of these premiums in 1917 was as follows:

The first prize to William Worth Hall, *instructed in the Classical High School, Providence.*

The second prize to Walter Berger Leonard, *instructed in the Classical High School, Providence.*

HONOR SCHOLARSHIPS

To encourage proficiency in studies and to provide recognition for successful application to college work, the Faculty has established Honor Scholarships without aid as follows:

The James Manning Scholarships, awarded to those undergraduates whose work throughout the year has been of such excellence that they are deemed worthy of very high academic distinction. For 1916–17 these scholarships were awarded as follows:

Class of 1917

Ralph Carleton Allen — Joseph Otis Fuller
William Harris Reese

Class of 1918

George Julius Heidt — Wilfred Pickles
James Edward Paige — Harleigh Van Slyck Tingley
James Walter Wilson

Class of 1919

Roger Tillinghast Clapp — Rudolph John Chauncey Fisher
James Saville Eastham — Eugene William O'Brien

Class of 1920

Walter Richmond Gardner — Fred Lorin Itschner
Robert Bruce Lindsay

The Francis Wayland Scholarships are awarded to those undergraduates whose work throughout the year, though not of the highest standard, has been of such excellence that they are deemed worthy of high academic distinction. For 1916–17 these scholarships were awarded as follows:

Class of 1917

Thomas Baird Appleget — Edgar Otis Benson, Jr.

Class of 1918

Roy Wilmot Benton — William Miller Fay
George Arthur Dubois — John Francis Isaac
Charles Gurney Edwards — Thomas McIntyre, Jr.

Class of 1919

Clarence Raymond Adams — Zenas Randall Bliss
Thomas Francis Black, Jr. — William Henry Edwards

Class of 1920

Wallace Broga Kelham Dove — John Walter Harriman

APPOINTMENTS FOR COMMENCEMENT

At Commencement three or four members of the graduating class deliver original orations in English of not more than fifteen hundred words each. One speaker is the winner of the Gaston medal; the others are appointed by the Faculty. The basis of selection is scholarship, ability to write, and ability to speak. In 1917 the speakers selected by the Faculty were:

Thomas Baird Appleget — Robert Gustavus Daniel Ljunggren
William Harris Reese — James Stephen Powers

As Mr. Reese was unable to deliver his oration on account of enlistment, the first alternate, James Stephen Powers, was appointed in his place.

FINAL HONORS

Final Honors in any department are awarded, at the completion of the studies leading to a bachelor's degree, to those who have secured: (1) A mark of *A* in courses in the department aggregating twelve or more semester hours; (2) a mark of *B* or *A* in eighty-five per cent. of all their courses of

study. In any department, however, certain specified courses may not be included in those counted for Final Honors. The names of all students awarded Final Honors are printed in the Commencement Program and in the Annual Catalogue. In 1917 the awards were as follows:

Thomas Baird Appleget, *English.*
Gilbert Congdon Carpenter, Jr., *Mathematics, Physics.*
Robert Gustavus Daniel Ljunggren, *English, Greek Literature and History, Romance Languages and Literatures.*
John George Peterson, *Biology, Chemistry.*
James Stephen Powers, *Romance Languages and Literatures, Social and Political Science.*
William Harris Reese, *English, Philosophy.*
Richard Henry Van Horn, *Mathematics.*
Albert Estes Wätjen, *Mechanical Engineering.*

Margaret Elizabeth Carr, *History.*
Helen Liefter Cohen, *Biology.*
Mary Drusilla Flather, *Biology, English, Social Science.*
Ruth Harvey Hall, *History, Mathematics.*
Grace Ethel Hawk, *Education, English, Roman Literature and History.*
Bessie Turner Keene, *English, Mathematics.*
Lena Rose Lopiansky, *Mathematics.*
Bertha Mae Prentiss, *English, Romance Languages and Literatures.*
Harriet Cutler Waterman, *Biology, Education, History, Mathematics.*
Winnifred Caroline Wetherbee, *Roman Literature and History.*

DEGREES CONFERRED IN 1917

DEGREES IN COURSE

BACHELOR OF ARTS

Abraham Lincoln Abel
Ralph Avery Armstrong
Angelo Anthony Caldarone
Frank Caesar Cambio
Arthur Chessman Clark. *With the class of* 1911
Walter Austin Cooper
Ralph Di Leone
James Gordon Fernald
William Stanley Howard
Raymond Earl Jordan
Solon Chester Kelley, Jr.
Carl Oswald Lathrop
James William Andrew Leighton
Robert Gustavus Daniel Ljunggren
Eliot Horton Luther
John Thomas McQuaid
George Arnold Northup, Jr.
James Stephen Powers
William Harris Reese
Harold William Ryley
Harvey Sheahan
Philip Raymond Sisson
Daniel Parkhurst Spalding
Robert Taft Staples
Frank Baker Tuckerman
Raymond Joseph Walsh
Herman William Wätjen, Jr.
Rowse Babcock Wilcox
Frank Valentine Willard
Harding De Cantillon Williams
Clarence Henry Woodmansee

Annie Alvira Adams
Hazel Marjorie Blaisdell
Margaret Elizabeth Carr
Eunice Elizabeth Chace
Helen Liefter Cohen
Marjorie Wykes Cotton
Ruth Harvey Hall
Mabel Eunice Harrington
Grace Ethel Hawk
Dorothy Mary Howes
Ella Katharyn Hudson
Bessie Turner Keene
Louise Cecilia Kennedy
Lena Rose Lopiansky
Kathryn Ormiston Lundy
Alice Louise McCaffrey
Anna Hildegarde Mee
Elsie Northrup
Bertha Mae Prentiss
Florence Relief Rhodes
Elizabeth de Welden Root
Helen Tingley
Lena Frances Uhlig
Winnifred Caroline Wetherbee
Ruth Young

BACHELOR OF PHILOSOPHY

William Russell Affleck
Roger Upham Allard
Ralph Carlton Allen
Thomas Baird Appleget
Joel Mead Austin
Nelson Barlow
Harold Chester Barney
Edgar Otis Benson, Jr.
John Francis Brown
John Russell Brown

Gilbert Congdon Carpenter, Jr.
Frederick Willis Conover
John Joseph Conway
Howard·David Corkum
Bertrand Munroe Cromack, Jr.
Carleton Herbert Day
Ralph Tillinghast Denison
Arthur John De Nommé
Theophilus Dimmick
John Bernard Dunn. *With the class of* 1916
Gordon Banham Ewing. *With the class of* 1916
William Barbour Farnsworth
Barney David Feinberg
Arthur Barden Finch
Norman Lincoln Fishel
Lory Talman Gardner
Philip Paddock Goodwill
Henry Theodore Hagstrom
John Robert Wheaton Hall
Robert Warren Hamilton
Arthur Bartlett Homer
Arthur Ariel Hopkins
Siji Cherung Hung
Willis Hobron Jeffery. *With the class of* 1916
Samuel Katzin
Edwin Munroe Knights
Victor Ritzendollar Le Valley
Edwin Carleton Loud
Melville Morris Lowe
Hugh Wilson MacNair
Albert Edward Mayoh. *With the class of* 1916
Albert Reginald Nichols
Isaac Yale Olch
William Nicholas Ormsby
Frank Eugene Paine, Jr. *With the class of* 1916
Leslie Lovell Perry
John George Peterson
John Wesley Rhoads
Wayland Wilbur Rice
Paul Curtis Richards
Rust Scott
Edmund Lawrence Sheridan
Albert Francis Smith. *With the class of* 1916
Richard Hobart Spear
John Storer, Jr.
Edward Ferdinand Waldron
Raymond Belcher Ward
Stanley Ayrault Ward
William Leroy Wedemeyer
Jasper Wight
Howard Dwight Williams
George Henry Wood, Jr. *With the class of* 1916
William Dale Wylie

Mary Evangeline Anderson
Sarah Ella Angell
Amanda Elsie Collette
Mary Drusilla Flather
Ruth Evelyn Myrick
Frances Patricia O'Connor
Marjorie Aline Robertson
Edith Charlotte Swanson
Harriet Cutler Waterman

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Hugh Bain
Anthony Caputi
Irving Scott Fraser
Joseph Daniel Haggerty
Harry Arden Hughes
Walter Vincent Murphy, *With the class of* 1916
Howard Hepson Quinham
Henry Carlton Robertson
Robert McKay Watson
John Frederick Wendt

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Eugene Le Roy Bamforth
Harold Abbott Butler
Richard Henry Van Horn

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Edward Warren Blue. *With the class of* 1916
William Thomas Manning Cleare
Joseph Otis Fuller
Bicknell Hall, Jr.
Edward Joseph Horrigan. *With the class of* 1915
Peter Vasilieff
Albert Estes Wätjen

MASTER OF ARTS

Madeleine Frances Bannan, A.B.
Arthur Earl Barnard, Ph.B.
William Henderson Barton, A.B.
Bancroft Huntington Brown, A.B.
Helen Rowland Burr, A.B.
Dorothy Cross, A.B.
Samuel Reed Damon, Ph.B.
Robert Cloutman Dexter, A.B.
Claude Holmes Dillehay, A.B.
Edith Violet Edwards, Ph.B.
Claus Emanuel Ekstrom, A.B.
Frederick Lum Ferris, Ph.B.
Tota Fujii, A.B.
Mary Isabelle Hall, A.B.
William Newton Hughes, A.B.
Samuel Katzin
Benjamin Towne Leland, A.B.
Preston Wilhelm Lewis, Ph.B.
Margaret Currier Lyon, A.B.
Joseph William Mackenzie, A.B.
Alice Inez McMeehan, A.B.
Margaret Elizabeth McWeeney, A.B.
James Anthony Murphy, Ph.B.
Vernon Rice, A.B.
Sarah Gridley Ross, A.B.
Emelie Lissette Sam, A.B.
Le Roy Benjamin Sanford, A.B.
Marion Elizabeth Stark, A.B.
Henry Jennison Blakely Stitt, Ph.B.
Francis Huntington Swett, A.B.
Marian Marsh Torrey, A.B.
Roy Alfred Waggener, A.B.
Earl Clifton Webster, Sc.B.
Adele Madeleine Wildes, A.B.
Harding De Cantillon Williams

MASTER OF SCIENCE

Henry Franklin Bain, A.B.
Minot Joy Crowell, Ph.B.
Nathaniel Orson Howard, Ph.B.
Albert Clayton Hunter, Sc.B.
Ralph Langley Parker, Sc.B.
Henry Weeden Underwood, Jr., Ph.B.
Harold Clayton Wilcox, Sc.B.
Amasa Fitch Williston, A.B.

DOCTOR OF PHILOSOPHY

Herbert Elliot Foote, A.M.

THESIS: "Anthraquinoyl Propiolic Acid."

Walter Chadwick Nelson, A.M.

THESIS: "The Gas-Bacillus, Bacterium Melchii, Migula, in Milk."

Marion Dodge Weston, A.M.

THESIS: "Illustrated Key to the Fossil Flora of the Carboniferous Period of the United States."

DEGREES OUT OF COURSE

BACHELOR OF PHILOSOPHY

OSCAR MADDAUS. *With the class of 1907*

HONORARY DEGREES

MASTER OF ARTS

HELEN BARRETT MONTGOMERY

DOCTOR OF DIVINITY

FRANK AUSTIN SMITH

PETER CLARK WRIGHT

DOCTOR OF LETTERS

STEPHEN BUTLER LEACOCK

DALLAS LORE SHARP

DOCTOR OF SCIENCE

JOHN EMERY BUCHER

DOCTOR OF LAWS

SAMUEL COFFIN EASTMAN

LINDLEY MILLER GARRISON

HERBERT CLARK HOOVER

SAMUEL HANSON ORDWAY

LIST OF STUDENTS

GRADUATES

Charles Harlan Abbot *Antrim, N. H.*
A.B. (*Brown University*) 1913; A.M. 1914. Comparative Anatomy, Physiology. Enrolled candidate for Ph.D.

Walter Adler *Providence*
Political Science, Economics. Enrolled candidate for A.M.

Abel Alexius Ahlquist *Pontiac*
A.B. (*Augustana College*) 1903; B.D. (*Augustana Theological Seminary*) 1909; A.M. (*Brown University*) 1916. Biblical Literature, Social Science. Registered candidate for Ph.D.

Ruth Linda Allen *Apponaug*
A.B. (*Wellesley College*) 1905. English. Registered candidate for A.M.

Henry Franklin Bain *Knoxville, Tenn.*
A.B. (*University of Tennessee*) 1916. Botany. Registered candidate for Ph.D.

Charles Starr Barker *Westerly*
Ph.B. (*Alfred University*) 1914. Education.

Arthur Earl Barnard *Providence*
Ph.B. (*Brown University*) 1915; Sc.M. 1916. Chemistry, Biology. Enrolled candidate for Ph.D.

Thomas A. Barry *Providence*
Ph.B. (*Brown University*) 1903; LL.B. (*Harvard*) 1906. Education. Enrolled candidate for A.M.

Olive Amelia Beveridge *East Providence*
A.B. (*Radcliffe College*) 1911. Education. Enrolled candidate for A.M.

Grace Electa Bird *Providence*
Ph.B. (*University of Chicago*) 1897; A.M. (*Columbia*) 1916. Education, Psychology. Enrolled candidate for Ph.D.

Emma Lillian Black *Providence*
Ph.B. (*Brown University*) 1916. Education. Enrolled candidate for A.M.

Francis James Brady
A.B. (*Brown University*) 1916. Art, English. Enrolled candidate for A.M.

Harold Stephen Bucklin *Pawtucket*
A.B. (*Brown University*) 1910. Social Science, Political Science. Enrolled candidate for Ph.D.

Albertine Louise Butts *Providence*
A.B. (*Brown University*) 1916. Education. Registered candidate for A.M.

Margaret Elizabeth Carr *Newport*
A.B. (*Brown University*) 1917. Education. Registered candidate for A.M.

Michael Davitt Carroll *Providence*
Sc.B. (*Harvard University*) 1904. Education. Registered candidate for A.M.

Margaret Brooks Church *Providence*
A.B. (*Brown University*) 1912; A.M. 1914. Botany. Enrolled candidate for Ph.D.

John Joseph Conway *Providence*
Ph.B. (*Brown University*) 1917. Education. Enrolled candidate for A.M.

Henry Conyers *Seekonk, Mass.*
Ph.B. (*Brown University*) 1912. Education. Enrolled candidate for A.M.

Marjorie Weston Cook *Providence*
A.B. (*Mount Holyoke College*) 1911. Bacteriology, Physiological Chemistry. Registered candidate for Ph.D.

Blanche May Crapo *Providence*
A.B. (*Brown University*) 1907. Education, Social Science. Enrolled candidate for A.M.

Percy Raymond Crosby *Pawtucket*
Sc.B. (*New Hampshire College*) 1912. Education. Enrolled candidate for A.M.

Ruth Cummings *Providence*
Sc.B. (*Simmons College*) 1916. Education.

James Lawrence Cummings *Fall River, Mass.*
A.B. (*Brown University*) 1914. Education. Enrolled candidate for A.M.

Catherine Elizabeth Curry *Providence*
A.B. (*Brown University*) 1914. Education. Registered candidate for A.M.

Anne Marjorie Day *Providence*
A.B. (*Vassar College*) 1898. English, German. Enrolled candidate for A.M.

Hermione Louise Dealey *Providence*
Ph.B. (*Brown University*) 1914; A.M. (*Clark University*) 1915. Education, Philosophy. Enrolled candidate for Ph.D.

Hagop Martin Depoyan *Providence*
A.B. (*Euphrates College*) 1902; B.D. 1908. Social Science, Philosophy. Enrolled candidate for A.M.

Clarence Joel Dunlap *Farmington, Me.*
Sc.B. (*University of Maine*) 1912. Education. Registered candidate for A.M.

Marion Jane Emsley *Johnston*
Ph.B. (*Brown University*) 1912. Education, Philosophy. Registered candidate for A.M.

James Russell Esty *Providence*
Sc.B. (*Rhode Island State College*) 1914; Sc.M. (*Brown University*) 1915. Bacteriology, Physiology. Enrolled candidate for Ph.D.

Howard Clinton Farwell *Providence*
Sc.B. (*Middlebury College*) 1913. History, Political Science, Economics. Enrolled candidate for A.M.

Brackett Britton Fernald *Rochester, N. H.*
Sc.B. (*New Hampshire State College*) 1915. Botany, Chemistry. Enrolled candidate for A.M.

Myron Whitmarsh Finch *Providence*
Sc.B. (*Rhode Island State College*) 1914. Biology. Registered candidate for A.M.

Sven Gustav Hägglund *Providence*
A.B. (*Augustana College, Theological Seminary*) 1900; B.D. 1904; A.M. (*Brown University*) 1915. Biblical Literature, Sociology. Enrolled candidate for Ph.D.

Marion Page Harley *Pawtucket*
A.B. (*Brown University*) 1915. Education, Mathematics. Enrolled candidate for A.M.

Willis Warren Harriman *Whitinsville, Mass.*
Ph.B. (*Brown University*) 1903. English, Education. Enrolled candidate for A.M.

Adelbert Hayes Harrington *Pontiac*
A.B. (*Olivet College*) 1901. Biblical Literature, Philosophy, Sociology. Registered candidate for A.M.

Mabel Eunice Harrington *Providence*
A.B. (*Brown University*) 1917. Education, Mathematics. Enrolled candidate for A.M.

Reginald Gordon Harris *Lowell, Mass.*
Biology, Education. Enrolled candidate for A.M.

George Julius Heidt *New York, N. Y.*
Biblical Literature, Philosophy. Enrolled candidate for A.M.

Amelia Adele Hempel *Providence*
A.B. (*Brown University*) 1915. Education, German. Enrolled candidate for A.M.

Judith Barber Hopkins *East Providence*
A.B. (*Brown University*) 1906. Education, Social Science. Enrolled candidate for A.M.

Siji Cherung Hung *Shanghai, China*
Ph.B. (*Brown University*) 1917. Economics, Social Science. Enrolled candidate for A.M.

Albert Clayton Hunter *East Providence*
Sc.B. (*Rhode Island State College*) 1915; Sc.M. (*Brown University*) 1917. Bacteriology, Physiology. Enrolled candidate for Ph.D.

Margaret Irons *North Scituate*
A.B. (*Wellesley College*) 1884; A.M. 1891. Education.

Horace Carpenter Jeffers *Central Falls*
Economics, Political Science. Enrolled candidate for A.M.

Mary Elizabeth Judge *Fall River, Mass.*
A.B. (*Trinity College*) 1917. Education, French, German. Registered candidate for A.M.

Bessie Turner Keene *Providence*
A.B. (*Brown University*) 1917. Education. Registered candidate for A.M.

Oscar Benjamin King *Whitt, Texas*
A.B. (*Baylor University*) 1917. History, Political Science. Enrolled candidate for A.M.

Carl Oswald Lathrop *Providence*
A.B. (*Brown University*) 1917. Bacteriology, Physiology. Enrolled candidate for Sc.M. Registered candidate for Ph.D.

Joseph Aloysius Linehan *Phenix*
Sc.B. (*Bates College*), 1917. Education. Registered candidate for A.M.

Samuel Carl Longwell *Providence*
A.B. (*Bates College*) 1902. Comparative Anatomy, Physiology. Enrolled candidate for Ph.D.

Russell Crosby Lowell *Providence*
M.E. (*Brown University*) 1899; A.M. 1907. Education. Registered candidate for Ph.D.

Henry Havelock Lowry *Providence*
A.B. (*Bates College*) 1912; A.M. (*Brown University*) 1916. Biblical Literature, Social Science. Enrolled candidate for Ph.D.

Eva Waterman Magoon *Providence*
Ph. B. (*Brown University*) 1911. Social Science, Biblical Literature. Registered candidate for A.M.

Edouard Rose Massey *Lyon, France*
B. ès L. (*Geneva School of Theology*). Romance Languages, Philosophy. Registered candidate for A.M.

Percy Davol Meader *Providence*
Ph.B. (*Brown University*) 1914; Sc.M. 1916. Bacteriology, Physiology. Enrolled candidate for Ph.D.

Irving Calvary Mitchell *Greeneville*
Sc.B. (*Rhode Island State College*) 1913. Education. Registered candidate for A.M.

Elizabeth Price Moulton *Providence*
A.B. (*Brown University*) 1914. Education, Biology, Geology. Enrolled candidate for A.M.

Helen Frances Ordway *Winchester, Mass.*
A.B. (*Mount Holyoke College*) 1916. Biology. Registered candidate for A.M.

Grace Cook Parker *Atlantic, Mass.*
A.B. (*Boston University*) 1912. Education. Registered candidate for A.M.

Joseph Russell Peckham *Providence*
B.D. (*Temple University*) 1910; S.T.D. 1911; A.M. (*Brown University*) 1916. Biblical Literature, Social Science. Enrolled candidate for Ph.D.

Louis Archibald Reed *North Scituate*
Ph.B. (*Peniel College*). History. Registered candidate for A.M.

John Christiano da Rosa *Cambridge, Mass.*
Biblical Literature, Romance Languages. Enrolled candidate for A.M.

Constance Brayton Rose *Providence*
A.B. (*Wellesley College*) 1914. Education, English. Registered candidate for A.M.

Eda May Round *Providence*
Ph.B. (*Brown University*) 1897; A.M. 1899. Botany, Physiology. Registered candidate for Ph.D.

Merrick Lyon Streeter *Longmeadow*
A.B. (*Brown University*) 1907. Social Science, Education. Enrolled candidate for A.M.

Lester Earl Swain *Providence*
A.B. (*Brown University*) 1908; A.M. 1909. Botany.

Marjorie Arnold Thayer *Woonsocket*
A.B. (*Brown University*) 1914. Education. Registered candidate for A.M.

Payson Tucker *Eden Park*
Ph.B. (*Brown University*) 1913. Education. Registered candidate for A.M.

Everett Rufus Vaughn *La Grange, Mo.*
Ph.B. (*La Grange College*); B.S. Political Science, Economics, Education. Enrolled candidate for A.M.

William Gould Vinal *Providence*
Sc.B. (*Harvard University*) 1906; A.M. 1907. Zoölogy, Botany. Registered candidate for Ph.D.

Byron Lillibridge West *Providence*
Ph.B. (*Brown University*) 1915; Sc.M. 1916. Chemistry, Physics. Enrolled candidate for Ph.D.

Helen Barnes Whiting *Summit, N. J.*
A.B. (*Mount Holyoke College*) 1915. Biology, Chemistry. Registered candidate for A.M.

Clinton Burnett Wilbur *Fall River, Mass.*
A.B. (*Williams College*) 1906. Greek, Latin. Enrolled candidate for A.M.

Edith Knowlton Wilde *Providence*
A.B. (*Mount Holyoke College*) 1911. English, German, Music. Registered candidate for A.M.

Alfred Howard Williamson *Rumford*
Ph.B. (*Brown University*) 1912; A.M. 1915. Education, Philosophy. Registered candidate for Ph.D.

Irene Hawes Williamson *Rumford*
Ph.B. (*Brown University*) 1912. Education. Registered candidate for A.M.

Earl Franklin Wood *Danielson, Ct.*
A.B. (*Brown University*) 1916. English, Music. Enrolled candidate for A.M.

William Taylor Wyman *Providence*
Sc.B. (*Syracuse University*) 1909. Education. Registered candidate for A.M.

Riniju Yamamoto *Kyoto, Japan*
A.B. (*William Jewell College*) 1917. Social Science, Philosophy, Education. Enrolled candidate for A.M.

Ruth Young *Providence*
A.B. (*Brown University*) 1917. Education. Registered candidate for A.M.

UNDERGRADUATES WITH THE DEGREES FOR WHICH THEY ARE REGISTERED

[A. = A.B. P. = PH.B. S. = SC.B.]

SENIORS: CLASS OF 1918

NAME		RESIDENCE
Clarence Raymond Adams	A	*Eden Park*
Walter Adler	A	*Providence*
Robert Johnson Ames	P	*Cortland, N. Y.*
James Francis Armstrong	A	*Providence*
Howard Bartholomew Arnold	A	*Providence*
Charles Walter Arthur	P	*Manchester, N. H.*
James Van Benschoten Bennett	A	*Centredale*
Roy Wilmot Benton	P	*New Bedford, Mass.*
Roswell Sewell Bosworth	A	*Bristol*
Vernon Aubrey Bowman	A	*Springfield, Mass.*
Franklin Coolidge Brooks	A	*Colorado Springs, Col.*
Kenneth Livingston Burdon	P	*Providence*
Edward James Butler	P	*Westerly*
Ward Elsmere Butler	P	*Providence*
Herbert Winfield Chappell	A	*Ashaway*
Earl Thompson Cox	P	*Providence*
Raymond Edward Cuffe	A	*Providence*
Albert Edwin Dillingham	P	*Saxtons River, Vt.*
Chester Miller Downing	P	*Providence*
George Arthur Dubois	S	*Fall River, Mass.*
Charles Gurney Edwards	A	*Providence*
Floyd Cerelle Fay, Jr.	A	*Franklinville, N. Y.*
William Miller Fay	A	*Franklinville, N. Y.*
Cyrus Glenn Flanders	A	*Providence*
Emery Milton Foster	P	*Watertown, Mass.*
Sidney Russell Gair	P	*Oak Park, Ill.*
Francis Vincent Garside	A	*Providence*
Rodolphe Armidas Gladue	P	*Woonsocket*
Attmore Edwin Griffin	P	*Wakefield*
Paul Joseph Grimes	P	*Pawtucket*
Thomas Watkins Hall	P	*North Providence*
Karnek A. Handanian	A	*Providence*
Reginald Gordon Harris	P	*Lowell, Mass.*
Ernest Clifton Hathaway	S	*North Tiverton*
George Julius Heidt	A	*New York, N. Y.*

NAME		RESIDENCE
Williams Horan Higgins	A	*Providence*
Mason Cole Hill	S	*Providence*
Harvey Scott Hincks	P	*Providence*
James Beecher Hobbs	P	*Auburn*
Alfred Rounds Holden	S	*Providence*
Malcolm Cleveland Hylan	P	*Medfield, Mass.*
John Francis Isaac	P	*Ballston Spa, N. Y.*
Horace Carpenter Jeffers	A	*Central Falls*
Bertil Abraham Johnson	S	*Edgewood*
Harry Waldemere Kallstrom	A	*Pittsfield, Mass.*
Chauncey Bemis Ladd	P	*St. Louis, Mo.*
Clifford Pierpont Ladd	P	*Richmond, Va.*
Samuel Leiboff	P	*Attleboro, Mass.*
Wardwell Coles Leonard	P	*Providence*
Sze-Chen Liao	P	*Kiangsu, China*
James Irving McDowell	A	*Providence*
Thomas McIntyre, Jr.	A	*Pawtucket*
Harold Allen McKay	P	*Bradford, Mass.*
William Anthony Maguire	A	*Providence*
William Chester Malenfant	S	*Providence*
Herbert Linsley Manchester	P	*Attleboro, Mass.*
Henry Russell Mannex	P	*West Quincy, Mass.*
Julian Brewer Marshall	A	*Ashton*
Robert Colby Moore	P	*Bingham, Me.*
Maurice Moskol	S	*Providence*
Clifton Irving Munroe	A	*Providence*
William Allenwood Murray	A	*Hardwick, Vt.*
James Edward Paige	A	*Peabody, Mass.*
Raymond Henry Parker	P	*Providence*
Wilfred Pickles	A	*Providence*
Albert Sanger Pratt	A	*Pomfret Centre, Ct.*
Dana Rice	A	*Providence*
Ralph Lester Robinson	S	*Providence*
John Christiano da Rosa	A	*Cambridge, Mass.*
William Walker Russell	P	*East Providence*
Samuel Isadore Silverman	A	*Providence*
William Eyre Sisson	A	*Providence*
Isaac Gallup Smith	S	*Westerly*
George Rodger Sturtevant	S	*Attleboro, Mass.*
Jacob Theodore Sydney	A	*Providence*
Harleigh Van Slyck Tingley	S	*Bristol*
Frederick Neale Tompkins	S	*Pawtucket*
Charles Henry Vehse	S	*Apponaug*

NAME		RESIDENCE
Augustus Caesar Webb	P	*Montgomery, Ala.*
Harold Fairfield Coit Wilcox	P	*Tiverton*
James Walter Wilson	P	*Manchester, N. H.*
Herman Aaron Winkler	P	*Providence*

JUNIORS: CLASS OF 1919

William Albrecht, Jr.	S	*New York, N. Y.*
John Hull Almy	P	*Edgewood*
Elijah Anthony, 2d	A	*Jamestown*
Morris Bazar	P	*Providence*
William Chester Beard	P	*Attleboro, Mass.*
William Henry Beattie	P	*Watervliet, N. Y.*
Robert Harold Beekman	P	*Edgewood*
Thomas Francis Black, Jr.	A	*Providence*
Edwin Laurine Blewer, Jr.	P	*Shreveport, La.*
Zenas Randall Bliss	P	*Edgewood*
Allen French Bowen	P	*Fall River, Mass.*
Earl Hartwell Bowen	P	*Fall River, Mass.*
Benjamin Williams Brown	A	*Danielson, Ct.*
Harrison Albert Brown	S	*Providence*
Morris Henry Brown	P	*Bridgewater, Mass.*
Philip Foster Brown	P	*Reno, Nev.*
Stanley Ward Burlingame	S	*Providence*
Joseph Butterworth, Jr.	A	*Fall River, Mass.*
Francesco Cali	P	*Cleveland, Ohio*
Richard Elmer Edwin Campbell	A	*Providence*
Frank Lewis Chesley	P	*Pawtuxet*
Alton Charles Chick	S	*Westbrook, Me.*
Donald Howland Clauss	P	*Providence*
Jacob Israel Cohen	P	*Providence*
Lester Ray Craig	P	*Danielson, Ct.*
Ralph Edwin Dexter	A	*Providence*
James Saville Eastham	A	*Methuen, Mass.*
Frank Edmund Eck	A	*Providence*
Guyton Saxon Eddy	P	*Barrington Centre*
William Henry Edwards	A	*Providence*
Oliver Wendell Robert Erickson	A	*Providence*
Perry Edson Faunce	P	*Providence*
Rudolph John Chauncey Fisher	A	*Providence*
Sidney Albert Fox	A	*Providence*
William McLeod Fraser	P	*Providence*
Harold Franklin Gibling	S	*Fall River, Mass.*

NAME		RESIDENCE
William Alfred Goggin	P	*Manchester, N. H.*
Mark Augustine Golrick, Jr.	S	*Providence*
Beale Mitchell Gordon	P	*Providence*
Harry Ralph Gordon	P	*East Cleveland, Ohio*
John William Haley	A	*Stonington, Ct.*
Alexander Tulloch Hindmarsh	P	*Providence*
Charles Henry Huggins, Jr.	P	*Providence*
Lawrence Francis Hurley	A	*Providence*
James Lawrence Jenks, Jr.	A	*Pawtucket*
Joseph Charles Johnston	P	*Providence*
Lawrence William Jordan	P	*White Plains, N. Y.*
Norman Luther Keller	P	*Bedminster, Pa.*
William Aldrich King	P	*Woonsocket*
Frederick Roland Kroener	S	*Wakefield*
David Ladd	S	*Providence*
Edgar Jewett Lanpher	A	*Glen Ridge, N. J.*
Robert Augustus Lawder	P	*Central Falls*
Ogden Richardson Lindsley	P	*Pawtucket*
Arnold Elias Lindstrom	P	*Jamestown, N. Y.*
Howard Ripley McPeck	P	*Marion, Mass.*
Daniel Allan MacPherson	P	*Providence*
George Samuel Magee	A	*Providence*
Samuel John Mann	P	*Pavilion, N. Y.*
Stanley Hopkins Mason	P	*Providence*
Frank Thorman Meyer	P	*Jamestown, N. Y.*
William Moss	P	*Providence*
Harold Raymond Moulton	P	*Pawtucket*
Ernest Eder Nelson	P	*Ivoryton, Ct.*
Elbert Perkins Nichols	P	*Stepney Depot, Ct.*
Ralph Hall Nichols	P	*Davisville*
Harry Norcross	P	*Lakewood, N. J.*
Eugene William O'Brien	S	*Riverpoint*
James Lindley Palmer	A	*East Providence*
Robert Wood Parkinson	P	*Providence*
William Elmer Parmenter	A	*Providence*
Frederick Holroyd Paulson	S	*Thornton*
Charles Henry Peckham	A	*Howard*
James Anthony Peirce	P	*Providence*
Fred Bartlett Perkins	A	*Providence*
Harlow Jerome Peters	P	*Jersey City, N. J.*
Earle Arthur Phillips	P	*Pawtucket*
Bernard Brown Pierce	P	*Boston, Mass.*
David Fessenden Pierce	P	*Somerset, Mass.*

NAME		RESIDENCE
Frederick Douglas Pollard	P	*Chicago, Ill.*
Edward Sefton Porter	A	*Manchester, N. H.*
John Sherman Prigge	A	*Jersey City, N. J.*
Marvin Whitman Ray	P	*Brookline, Mass.*
Francis Hamilton Rich	P	*Springfield Gardens, N. Y.*
Waldo Whiting Robbins	P	*Hingham, Mass.*
Hartley Forest Roberts	A	*Mexico, Me.*
Daniel Robinson	S	*Providence*
Manuel George Robinson	S	*Central Falls*
Ralph Knickerbocker Rogers	P	*Troy, N. Y.*
Anthony Russo	P	*Brooklyn, N. Y.*
Charles Oswald Ryon	S	*Stonington, Ct.*
Louis Schmidt	P	*Providence*
Henry Raymond Searles	P	*Pawtucket*
Arthur Godfrey Sellen	P	*Warren*
Charles Brenden Shaughnessy	A	*Uxbridge, Mass.*
Howard Franklin Shawcross	P	*Greystone*
Samuel Sanford Sheffield	A	*Newport*
William Herbert Sheldon, Jr.	A	*Pawtuxet*
Francis Lloyd Simons	P	*Pawtucket*
Wilbert Bancroft Skerrye	A	*Templeton, Mass.*
Samuel Watson Smith, 3d	P	*Cincinnati, Ohio*
Dwight Spencer	A	*Colorado Springs, Col.*
Ernest Leon Sperry	P	*Oak Lawn*
Daniel Thomas Sullivan	P	*West Warren, Mass.*
Solomon Tannenbaum	A	*Providence*
Samuel Temkin	P	*Providence*
Frederick Wallace Thomas	P	*Providence*
Alton Stewart Thoren	P	*Edgewood*
James Johnson Walker	A	*Lakewood*
Thomas Carr Watson, Jr.	P	*Jamestown*
Joshua Herbert Weeks	P	*New Bedford, Mass.*
George Townsend Welch	A	*Providence*
Henry Harold Whitman	P	*Marlboro, Mass.*
Everett Allen Wight	P	*Fiskdale, Mass.*
George Garland Wilcox	P	*Bristol, Ct.*
Webb Westcott Wilder	S	*Thornton*
John Roles Williams	P	*Baltimore, Md.*

SOPHOMORES: CLASS OF 1920

NAME		RESIDENCE
Charles Frederick Abbott	S	*Shrewsbury, Mass.*
Victor Freeman Adams	P	*Osterville, Mass.*
Alexander Addeo	S	*Providence*
John Wilmot Albright	P	*Rahway, N. J.*
Frank Alexander Ross Allen	P	*Pawtucket*
Tracy William Ames	S	*New London, Ct.*
Elmer George Armstrong	P	*Rahway, N. J.*
Aaron Archie Aronstam	P	*Springfield, Mass.*
Edward Ferdinand Assmus	S	*Nutley, N. J.*
Laurence Porter Atkins	P	*Providence*
Donald Miller Aumack	P	*Ballston Spa, N. Y.*
Henry Congdon Aylsworth	P	*Foster Centre*
Herbert Marston Bailey, Jr.	A	*Hackensack, N. J.*
John Murkland Barnes	P	*Lynn, Mass.*
Edmund Francis Beagan	A	*Providence*
Willard Leon Beaulac	P	*Pawtucket*
Thomas Bennardo	A	*Brooklyn, N. Y.*
Russell William Besser	A	*Gilbertville, Mass.*
Le Roy Walton Black	P	*Rutherford, N. J.*
Robert Angell Bogle	P	*Fall River, Mass.*
Paul Theodore Brady, Jr.	A	*Palisade, N. J.*
Frank Donald Brigham	P	*Beach Bluff, Mass.*
Abraham Lincoln Brisk	P	*Gardiner, Me.*
Harry Turner Broadbent	S	*Providence*
Alfred Colvin Brooks	P	*Rahway, N. J.*
Wilfred Warner Brouillette	A	*Salem, Mass.*
Stanton Albert Burdick	P	*Westerly*
Edward Clifton Burnham, Jr.	P	*Hopedale, Mass.*
Walter Morrill Burse	A	*Pittsfield, Me.*
John Robert Caldow	A	*Fitchburg, Mass.*
Harold Aldrich Campbell	A	*Phenix*
Harley Frank Carey	P	*Laconia, N. H.*
Phillips Dean Carleton	A	*Providence*
Raymond Eustace Claflin	A	*Lyme, N. H.*
Ernest Taylor Clough	P	*Portland, Me.*
Hugh John Connelly	A	*Providence*
Rodney Esten Cook	P	*Woonsocket*
Bruce Noel Coulter	P	*Bridgeport, Ct.*
George Stuart Councill	P	*Hickory, N. C.*
William Judson Crouch	P	*Louisville, Ky.*
Paul Whitman Davis	A	*Providence*

NAME		RESIDENCE
James Quayle Dealey, Jr.	A	*Providence*
Clark Howard Denison	P	*Moosup, Ct.*
William Lewis Dewart, Jr.	P	*Sunbury, Pa.*
Robert Kellam Dewey	S	*New London, Ct.*
George Rudolph Dinkel	P	*Montclair, N. J.*
Stanley Milburn Dore	S	*Edgewood*
John Dorin	P	*New Haven, Ct.*
Wallace Broga Kelham Dove	P	*Providence*
Arthur Justin Dows	P	*Lowell, Mass.*
Harold Gibbs Eastman	P	*Hartford, Ct.*
William Grosvenor Ely, Jr.	P	*Schenectady, N. Y.*
Ralph Christopher Emery	P	*Hoboken, N. J.*
Clifton Roy Entwistle	A	*Providence*
Charles Lawrence Evans	A	*Providence*
Irving Augustine Farrell	P	*Central Falls*
Ralph Feinstein	P	*Providence*
Stanley August Ferger	P	*Cincinnati, Ohio*
William FitzGibbon	P	*New York, N. Y.*
Charles Francis Fitzpatrick	A	*Providence*
Harold Manchester Fleming	A	*Beverly, Mass.*
Robert Forbis	P	*Portland, Ore.*
Marshall Nairne Fulton	P	*Keokuk, Iowa*
Walter Richmond Gardner	A	*Providence*
Paul Rupert Gast	P	*New Bedford, Mass.*
Seth Brayton Gifford	P	*Adamsville*
George Harold Gildersleeve	P	*Norwich, Ct.*
Carl Jacob Grabb	P	*Webster, N. Y.*
Kenneth Grigg	A	*Lincolnton, N. C.*
George Washington Grimm, Jr.	P	*East Orange, N. J.*
Dutee Jerald Hall	A	*Westerly*
John Joseph Hall	S	*Providence*
John Stanley Hardman	P	*Trinidad, Col.*
John Walter Harriman	A	*Providence*
William Henry Hazard, Jr.	A	*Salamanca, N. Y.*
Donald Watson Height	P	*Manchester, Mass.*
Samuel Heller	A	*Providence*
Paul Herriott	A	*Chicago, Ill.*
Allen Douglass Hill	A	*Syracuse, N. Y.*
Seaverns Winthrop Hilton	P	*Providence*
Alden Bomer Hoag	P	*Springfield, Mass.*
Harold Gardiner Hood	P	*Somerset, Mass.*
Richard Armington Hopkins	A	*Ludlow, Vt.*
Willis Clemmer Horan	P	*Algona, Iowa*

NAME		RESIDENCE
Walter Hoving	P	*New York, N. Y.*
Lawrence Benjamin Howell	P	*Morristown, N. J.*
Raymond Maverick Hunter	P	*Des Moines, Iowa*
Donald Rice Hylan	P	*Medfield, Mass.*
Fred Lorin Itschner	S	*Waterbury, Ct.*
Eric Pearson Jackson	A	*Fall River, Mass.*
Ernest Ashley Jenckes	A	*Providence*
Louis Edwin Jones	P	*Norwood, Ohio*
Elmer Stackhouse King, Jr.	P	*Netcong, N. J.*
Robert Albert Kingsley	A	*South Berwick, Me.*
Elwyn Herbert Kittredge	P	*East Hardwick, Vt.*
Russell Adrian Lane	P	*Baltimore, Md.*
Leo Paul Lanigan	S	*Danbury, Ct.*
Charles Hamilton Lawton, Jr.	P	*Pawtucket*
Robert Bruce Lindsay	A	*New Bedford, Mass.*
Harry William Lord	P	*Pawtucket*
Albert Edgar Lownes	P	*Providence*
Stanford Leonard Luce	A	*Dorchester, Mass.*
Kenneth Luther	P	*Newburgh, N. Y.*
Alan Nicholson McDougall	P	*Yonkers, N. Y.*
John Alexander McGhee, Jr.	A	*Providence*
Robert Stetson Macfarlane	P	*Seattle, Wash.*
Bentley Mackintosh	P	*Sharon, Mass.*
Harold Estes Marr	P	*Fall River, Mass.*
William Matthews	P	*Red Bank, N. J.*
Jacob Henry Miller	P	*Providence*
Lorimer Douglas Milton	A	*Washington, D. C.*
Walter Vincent Moriarty	P	*Providence*
Philip David Morrison	A	*Brockton, Mass.*
Leonard Killian Murphy	S	*Acushnet, Mass.*
Samuel Mushlin	P	*Derry, N. H.*
Henry William Edgar Noll	A	*Providence*
Harry Clark North	P	*Plattsburg, N. Y.*
Frank Irving Noyes	A	*Haverhill, Mass.*
Isaiah Olch	A	*Providence*
Evariste Orteig	P	*New York, N. Y.*
Benton Bradley Orwig	P	*Napoleon, Ohio*
Reuben Tyler Palmer	P	*Worcester, Mass.*
Arthur Callistus Patrick	A	*Provincetown, Mass.*
Adolf Sidney Perlow	P	*Providence*
Harold Augustus Phelps	A	*Fitchburg, Mass.*
Charles Reginald Phillips	P	*New Haven, Ct.*
Louis Arthur Raymond Pieri	P	*Franklin, Mass.*

NAME		RESIDENCE
George Otto Podrasnik	P	*Chicago, Ill.*
Wallace Everett Randall	P	*Providence*
Richard Valentine Ratigan	A	*Providence*
George Henry Rhodes	P	*Providence*
Anthony Romano	A	*Providence*
William Francis Rooney	S	*East Norwich, N. Y.*
Richard Herbert Sarle	A	*Providence*
Fred Emil Schoeneweiss	A	*Poughkeepsie, N. Y.*
Philip Edwin Scott	P	*Providence*
William Harold Searles	P	*Pawtucket*
Donald Scholefield Shaw	P	*New York, N. Y.*
William Burton Shaw	P	*Providence*
William Desmond Shay	A	*Fall River, Mass.*
Michael Joseph Shea	S	*Manchester, N. H.*
William Francis Sheehan	P	*Chateaugay, N. Y.*
James Sinclair	P	*New York, N. Y.*
Edward Wilson Smith	S	*Westerly*
Joseph Smith	A	*Providence*
Laurence Richards Smith	S	*Hartford, Ct.*
George Alfred Steinhoff	A	*Providence*
Earl Randolph Stephens	P	*Salyersville, Ky.*
Raymond Somers Stites	P	*Providence*
Ralph Ellsworth Stoddard	P	*Rockland, Mass.*
Edward Bloodgood Stringham, Jr.	P	*Hopewell Junction, N. Y.*
Howard Clinton Sweet	A	*Providence*
Gardner Swentzel	P	*Lynn, Mass.*
John Baker Tasker, Jr.	P	*Hillsboro, N. H.*
Frederic Allen Thompson	P	*Pawtucket*
Elton Hammond Tucker	P	*Providence*
Thomas Francis Vance, Jr.	P	*Pawtucket*
Charles Lincoln Vaughan	P	*Providence*
Samuel Hudson Walsh, Jr.	P	*Putnam, Ct.*
Edward James Walsh, Jr.	A	*Providence*
Stanley George Warner	P	*Peterboro, N. H.*
Maynard Jones Wartman	A	*Tilton, N. H.*
Byron Adams Waterman	P	*Warren*
Richmond Lathrop Watson	P	*Auburn, Me.*
Cecil Alexander Watt	A	*Laconia, N. H.*
Gaston Maurice Weinstein	P	*New York, N. Y.*
Chauncey Depew Wentworth	A	*North Baldwin, Me.*
Harvey Abbott Whipple	A	*Providence*
Stanley Patterson Whipple	A	*Providence*
Daniel Everett Whitford	A	*Phenix*

NAME		RESIDENCE
Jay Mayo Williams	P	*Monmouth, Ill.*
Walter Fish Wolfe	S	*Mystic, Ct.*
James Lewis Woodruff	P	*Bristol, Ct.*
Elmer Stuart Woodward	P	*Rockland, Mass.*
Woodworth Wright	P	*Providence*
Lloyd Parker Zellers	P	*Worcester, Mass.*
Frank Jacob Zitserman	A	*Providence*

FRESHMEN: CLASS OF 1921

Forbes Sampson Adam	P	*Canaan, Ct.*
Joseph Adam	P	*Framingham, Mass.*
George Henry Adams	P	*Lakewood, N. J.*
Granville Burns Affleck	P	*Yonkers, N. Y.*
Robert Freeman Allison	P	*St. Johnsbury, Vt.*
Everett Munyan Arnold	P	*East Providence*
George Reginald Ashbey	A	*Norwich, Ct.*
Robert Reed Baldridge	A	*McKeesport, Pa.*
Harold Sherman Barker	P	*Newport*
William Stanley Barrett	A	*Providence*
John Gardner Beagan	P	*Providence*
Roland Dewey Beck	A	*Salem, N. J.*
George Bichwit	P	*Brooklyn, N. Y.*
Mars Paul Bishop	P	*Chicago, Ill.*
Carl August Bjorklund	S	*Hingham, Mass.*
Stanley Thayer Black	S	*Pawtucket*
Philip Pearce Borden	P	*Portsmouth, N. H.*
Paul Eddy Boughton	S	*Poughkeepsie, N. Y.*
Howard George Brewer	S	*Cromwell, Ct.*
Roger Williams Brigham	P	*Westboro, Mass.*
William Thomas Brightman, Jr.	S	*Dighton, Mass.*
Earle Milton Brown	P	*Valley Falls*
Frederick Gregory Brown	A	*Newburgh, N. Y.*
William Robert Buerhaus	A	*Edgewood*
Charles Seymour Bullock	P	*Cold Spring, N. Y.*
Thomas Francis Burke	P	*Pawtucket*
Gordon Franklin Burr	A	*Providence*
Theodore Huggins Bush	P	*Malden, Mass.*
Floyd Warren Buswell	A	*Providence*
Nelson Salvador Butera	S	*Morristown, N. J.*
Lyle Caldwell	S	*Johnston*
Martin Campbell	S	*Newark, N. J.*
Michael Cantor	S	*Holyoke, Mass.*

NAME		RESIDENCE
Arthur Silvio Caputi	S	*Providence*
Louis Edwin Card	A	*Narragansett Pier*
Chester Wellington Chinn	P	*Riverside*
Sidney Stuart Cline	S	*Amenia, N. Y.*
Edgar George Cochrane	P	*Providence*
Morris Louis Cohen	A	*Providence*
Allan Bretterg Colby	S	*Fair Haven, N. J.*
Frederick Seth Collins	A	*Great Barrington, Mass.*
Earl Fairchild Connett	P	*Morristown, N. J.*
Clair McKinley Conzelman	A	*Bristol, Ct.*
Richard Henry Coolidge	S	*Hartford, Ct.*
Walter Freeman Crawford	P	*Pawtucket*
John Joseph Anthony Csepely	S	*Providence*
Christie Elston Cuddeback	P	*New York, N. Y.*
Benjamin Rodman Curtis	P	*Peace Dale*
Charles Emerson Davis	S	*Edgewood*
Ernest Dean Dawson	P	*Providence*
Edward James Dempsey, Jr.	P	*Cincinnati, Ohio*
Vladimir Triphon Dimitroff	S	*North Scituate*
Harold Alpheus Dodge	S	*Westbrook, Me.*
John Robert Dorer	S	*Irvington, N. J.*
Carlton Le Roy Dunham	S	*Plainfield, N. J.*
Charles Brayton Eddy	P	*Providence*
Nathan Willis Edson, 2d	A	*Lynn, Mass.*
William Burton Ellis	P	*Chicago, Ill.*
Lloyd Clute Ely	P	*Schenectady, N. Y.*
Alfred Joseph Emmons	P	*New Bedford, Mass.*
Francis Dean Erb	S	*Lynn, Mass.*
Raymond Noyes Evans	P	*Lynn, Mass.*
Harold Adam Faulkner	P	*East Providence*
Wayne Moody Faunce	S	*Providence*
Isadore Feldman	S	*Providence*
Jeremiah Sweetser Ferguson	A	*New York, N. Y.*
Charles John Fish	P	*South Swansea, Mass.*
Lawrence Rogers Foote	P	*Pawtucket*
Harry Alexander Forman	S	*Attleboro, Mass.*
Stuart Forstall	P	*Montclair, N. J.*
Warren Friedman	A	*Providence*
Henry Ezra Gallup	P	*Danielson, Ct.*
Arcadia Giura	P	*New Bedford, Mass.*
Max Glaubman	P	*Providence*
Leon Goldberg	A	*Providence*
Samuel Goldman	S	*Providence*

NAME		RESIDENCE
Raymond Frank Goodman	A	*Providence*
Frank Oswald Green	A	*Pawtucket*
John Ashley Greene	P	*New York, N. Y.*
Russell Harris Greene	P	*Barrington*
Harold Lee Grindle	P	*Arlington, N. Y.*
Charles James Guild	S	*Attleboro, Mass.*
Delphis Victor Guillemette	S	*Pawtucket*
Thomas Corcoran Gunning	A	*Fall River, Mass.*
Abram Evan Gwynne	P	*New York, N. Y.*
Francis Thomas Haley	P	*Providence*
William Worth Hall	P	*Providence*
Herbert Leonard Hambleton	P	*Goffstown, N. H.*
Harvey Richter Harris	A	*Pittston, Pa.*
Walter Page Hatch	P	*Holliston, Mass.*
Floriman Mason Hathaway	P	*Clinton, Me.*
Clyde Clayton Hill	P	*Lebanon, N. H.*
Leonard Miller Hinson	P	*Brookline, Mass.*
David Engel Hischer	P	*Providence*
William Sisson Hoar	S	*Barrington*
Frederick Weston Hoffman	S	*Pawtucket*
Everett Van Ransalaer Hood	P	*Providence*
Stephen Worcester Hopkins	P	*Lynn, Mass.*
Fred Walter Householder	S	*Chepachet*
Frederick Anthony Huggins	P	*Providence*
William Roland Irving	S	*New Haven, Ct.*
Roger Peirce Jenks	P	*Middleboro, Mass.*
Russell Phillips Jones	A	*Edgewood*
Telford Roxburgh Jones	P	*Lynn, Mass.*
Howard Allison Kenyon	P	*Sterling, Ct.*
Reginald Stevens Kimball	A	*Newport*
Arthur Smith Kirk	S	*Pawtucket*
Ralph Chase Knight	S	*Newburyport, Mass.*
Herman Albert Lawson	P	*Newport*
Louis Varley Leeburn	S	*Puwtucket*
Walter Berger Leonard	P	*Providence*
Henry Newman Lonergan	P	*Pawtucket*
Royal Bertrand Lord	S	*Pawtucket*
Fred Alton Lougee	S	*St. Johnsbury, Vt.*
Charles Norman Lovenberg	P	*Providence*
Herbert Elden MacCombie	A	*Stoughton, Mass.*
George Kenneth Macdonald	S	*East Providence*
Robert Clarence MacDowell	P	*Le Roy, N. Y.*
Benjamin William McKendall	P	*Providence*

NAME		RESIDENCE
Robert Charles McKenney	P	*Trenton, N. J.*
Ernest Stuart Macmillan	P	*Pawtucket*
George Peabody Macready, Jr.	A	*Providence*
Harold Einar Magnuson	P	*Pontiac*
Joseph Alfred Makanna	P	*Bangor, Me.*
John Edward Manix	P	*New Haven, Ct.*
Clarence Edward Mansfield	P	*Washington, Pa.*
Herbert Harold Marks	A	*Providence*
Vincent Millard Meserve	S	*Guilford, Me.*
Max Meyer	A	*Brooklyn, N. Y.*
Coe Stanley Mills	S	*Sussex, N. J.*
Harold Chester Mills	P	*Pawtucket*
Elbridge Alden Minard	A	*Dorchester, Mass.*
Ralph Williams Miner	A	*East Greenwich*
Byron Ellsworth Mitchell	P	*Providence*
Alfred Mochau	P	*Burnside, Ct.*
Roger Ellsworth Moore	P	*Providence*
John Joseph Muccio	P	*Lymansville*
Daniel Boyle Murphy	A	*Brooklyn, N. Y.*
Le Roy Murphy	P	*Stoughton, Mass.*
Roger Waldemar Nelson	P	*Quincy, Mass.*
Joel Martin Nichols, Jr.	P	*Attleboro, Mass.*
Mark Alvin Nickerson	S	*Pawtucket*
John Joseph Nolan	P	*Plainfield, Ct.*
Robert Gale Noyes	A	*Norwich, Ct.*
Olof Gustaf Oden	P	*Providence*
Thomas Albert Olney, Jr.	P	*South Bend, Ind.*
Edward Standish Palmer	P	*Providence*
Walter Nelson Palmquist	S	*Providence*
Henry Wilfred Peterson	P	*Quincy, Mass.*
Edward Judson Phelps	P	*Rockland, Mass.*
John Everett Pierce	S	*Enfield, N. H.*
James Halsey Pierson	S	*Morristown, N. J.*
Maurice Mitchell Pike	A	*Providence*
Daniel Rogers Pinkham	P	*Lynn, Mass.*
George William Potter	P	*Fall River, Mass.*
Michael Thomas Prendergast	P	*Brookline, Mass.*
Harold Lloyd Pulver	P	*Providence*
George Lawrence Reinacher	A	*New London, Ct.*
Edwin Ware Richardson	P	*Burlington, Me.*
Gordon Wolcott Roaf	S	*Newburyport, Mass.*
William Bowman Robinson	A	*Providence*
Chester Albert Ruoff	S	*Providence*

NAME		RESIDENCE
Louis Salk	S	*Providence*
Jonas Sallet	P	*Attleboro, Mass.*
Seneca Gadsden Samson	P	*New York, N. Y.*
David Platt Sanford	S	*Gladstone, N. J.*
Ernest Frank Santangini	S	*Providence*
Samuel Schefelman	P	*Brooklyn, N. Y.*
Lloyd Alan Bernard Sheeran	S	*Providence*
Harold Lincoln Sheldon	S	*Phenix*
Abraham Israel Shulman	S	*Providence*
Harold Stanton Smith	P	*Needham, Mass.*
Norman Britton Sowell	P	*Moorestown, N. J.*
Ralph De Lille Standish	S	*Hanover, Ct.*
Howard Bucknell Stearns	A	*Providence*
Preston Tapley Stephenson	P	*Lynn, Mass.*
John Randolph Stevens	P	*Providence*
Henry Newell Sunderland	P	*Fall River, Mass.*
Everett Leprilete Sweet	P	*Providence*
Harold Edward Switzgable	S	*Elizabeth, N. J.*
Reginald Gilchrist Sykes	P	*Plainfield, N. J.*
John Chase Talbot, Jr.	P	*New York, N. Y.*
Alfred Cecil Taylor	P	*Providence*
Raymond Hollis Thayer	P	*Wakefield, Mass.*
Edwin Lewis Thornton	P	*Pawtucket*
Harold Lauren Tinker	A	*Nashua, N. H.*
William Anthony Towle, Jr.	S	*Newburyport, Mass.*
George Paul Turiga	S	*Beacon, N. Y.*
Herbert Erwin Van Hoesen	P	*Providence*
Earl Vinie	S	*Pawtucket*
Jerome Anthony Walsh	P	*Oneonta, N. Y.*
John Nicholas Walsh	P	*Providence*
Carl Henry Wardwell	S	*Bluehill, Me.*
Herbert Alexander West	P	*Hopkinton, Mass.*
James Lucas Wheaton, Jr.	S	*Pawtucket*
Donald Eugene Wilbur	S	*West Pembroke, Me.*
Alvin Myrick Wilford	S	*Lynn, Mass.*
Eske Harry Windsberg	P	*New Bedford, Mass.*
Knowlton Mead Woodin	P	*Auburn, Me.*
Elmer Parker Wright	P	*Auburn*
Harold Ballard Yeaton	P	*Darien, Ct.*
Howell Thomas Young	A	*Providence*
Peter Paul Zubrisky	P	*Providence*

SPECIAL STUDENTS

NAME	RESIDENCE
Wilhelm Philip Albohn	*Providence*
Erik A. Anderson	*Providence*
Edward Harris Barr	*Central Falls*
Roy Joseph Beauregard	*Harrisville*
Herbert Harold Boden	*Edgewood*
Robert Lyman Butler	*East Providence*
James Christian Carmark	*Woonsocket*
John Carder Champlin	*Block Island*
Wesley Lawrence Dedrick	*Providence*
Giovanni Di Tiberio	*Providence*
Claude Joseph Farnsworth	*Providence*
Thomas Hazard Gardiner	*Providence*
Melville George Hatcher	*Rensselaer, N. Y.*
Thomas Francis Head	*Providence*
Herbert Gordon Higgins	*Providence*
Henry Knowles Holden	*Warwick Neck*
Frank Joseph Honan	*Providence*
Nathan Gardner Kingsley	*Providence*
Earl Raymond Miller	*Attleboro, Mass.*
Ralph Henry Mullane	*Dorchester, Mass.*
James Russell Murphy	*Providence*
Philip Gordon Nase	*Pawtucket*
John Warren Northcott	*New Bedford, Mass.*
Harlan Berkley Peabody	*Providence*
Carl Ephraim Pearson	*Providence*
Edward Malcolm Phillips	*Taunton, Mass.*
Charles Edward Russell	*Lowell, Mass.*
Oliver Ainsworth Seaver	*Woonsocket*
Valentine Crawford Threlfall	*Fall River, Mass.*
George Earl Wilson	*Providence*

STUDENTS ADMITTED AT MID-YEAR, 1916–17

NOT LISTED IN CATALOGUE FOR 1916–17

NOT INCLUDED IN SUMMARY OF REGISTRATION, 1917–18

SOPHOMORE: CLASS OF 1919

NAME	RESIDENCE
Philip Foster Brown	*Reno, Nev.*

FRESHMEN: CLASS OF 1920

John Wilmot Albright	*Rahway, N. J.*
Herbert Marston Bailey, Jr.	*Hackensack, N. J.*
Henry Louis Barber	*Providence*
John Allen Coggeshall	*Pawtuxet*
Millard Demarest	*Hackensack, N. J.*
William FitzGibbon	*New York, N. Y.*
Stanley August Ferger	*Cincinnati, Ohio*
Seth Brayton Gifford	*Adamsville*
Carl Jacob Grabb	*Webster, N. Y.*
Walter Hoving	*New York, N. Y.*
Harold William Lord	*Pawtucket*
Charles Edmund Miller	*Lakewood, N. J.*
Howard Clinton Sweet	*Providence*

SPECIAL STUDENT

Henry Knowles Holden	*Warwick Neck*

STUDENTS, REGISTERED AS UNDERGRADUATES IN 1916–17 ‡

WHO HAVE GIVEN UP THEIR COLLEGE COURSE TO ENGAGE IN SOME FORM OF

NATIONAL SERVICE

CLASS OF 1917

Roger Upham Allard	John Russell Brown
Ralph Carleton Allen	Malcolm Wright Burnham
Ralph Avery Armstrong	Gilbert Congdon Carpenter, Jr.
Hugh Bain	William Thomas Manning Cleare
Nelson Barlow	Walter Austin Cooper
John Francis Brown	Bertrand Munroe Cromack, Jr.

‡ This list does not include the names of students who have enlisted since September, 1917.

Carleton Herbert Day
Ralph Tillinghast Denison
Gordon Banham Ewing
William Barbour Farnsworth
Barney David Feinberg
James Gordon Fernald
Arthur Barden Finch
Norman Lincoln Fishel
Robert Nathaniel Foote
Lory Talman Gardner
William John Grace
Henry Theodore Hagstrom
Bicknell Hall, Jr.
John Robert Wheaton Hall
Herbert Percival Halvorson
Robert Warren Hamilton
Arthur Bartlett Homer
Harry Arden Hughes
Wendell Everett James
Willis Hobron Jeffery
Bruce Monat Jeffris
Raymond Earl Jordan
Charles Bird Keach
Solon Chester Kelley, Jr.
Paul Homer Keough
Edwin Munroe Knights
Victor Ritzendollar Le Valley
Melville Morris Lowe
Hugh Wilson MacNair
William B. Miller
William Nicholas Ormsby
Earl Moore Pearce
James Stephen Powers
Lester Ware Preston
Howard Hepson Quinham
William Harris Reese
John Wesley Rhoads
Wayland Wilbur Rice
Paul Curtis Richards
Rust Scott
Harvey Sheahan
Thomas Bryant Smith
Daniel Parkhurst Spalding
Richard Hobart Spear
James Cunningham Springer
Robert Taft Staples
Leslie Edmund Stone
John Storer, Jr.
Leslie Ray Taber
Herbert Tuttle Tinker
Richard Henry Van Horn
William Wallace Wade
Edward Ferdinand Waldron
Raymond Joseph Walsh
Raymond Belcher Ward
Stanley Ayrault Ward
William Leroy Wedemeyer
Rowse Babcock Wilcox
Frank Valentine Willard
Harding De Cantillon Williams
Clarence Henry Woodmansee
William Dale Wylie
Stanley Logan Yonce

CLASS OF 1918

Herman Maine Battey
Octave Peterson Beauvais
Herbert Butterfield
Peter Leo Cannon
Armand Laurier Caron
John Sharpe Chafee
William Watts Chaplin
Reuben Rogers Chase, Jr.
Dwight Townsend Colley
Paul Schröder Crandall
Matthew Joseph Cummings, Jr.
Donald Kelsey Dobbs
John Marshall Dowe
Charles Henry Eden, Jr.
Mark Farnum
Raymond Earl Farnsworth
Lawrence Gustav Flick
Albert Henry Flint, Jr.

William McKinley Gafafer
Paul Francis Giles
George Clifton Hull
Manuel James Jemail
Ronald MacDonald Kimball
Chauncy Taft Langdon
Henry Coe Lanpher
Carroll Burton Larrabee
John Richard Leeming, Jr.
Leroy Dexter Lincoln
Arthur Bancroft Lloyd
Charles Briggs Malone
Walter Raymond McGinn
Thomas Aloysius McGuire
Russell Elwood McKenzie
Morton Perry McLeod
Vernon Charles Manley
Furber Ingram Marshall
Eric Albert Monroe
Waldon Charles Nason
Philip Ezra Newhall
John Champlin Noyes
Gordon Lancester Parker
Kenneth Safford Parker
Lyle Milton Prouse
Wilbur Lamprey Rice
John Brown Riddock
George Clemison Scott
Irving Gordon Smith
Frank Casper Speck, Jr.
Joseph Woodbury Strout, Jr.
Charles Arthur Stuart
Alfred James Sullivan
John Sweetland
Pierre Everett Teets
George Wheaton Carr Vaughan
John Preston Verity
Raymond Brooks West
Raymond Louis Wilder
Hiram Herbert Williams
Luke Augustus Woodbury

CLASS OF 1919

Preston Ober Abbott
George Chester Ames
John Dean Avery
Raymond Francis Aloysius Bagley
Merrill Kelly Bennett
Pelham Winslow Bogert
William Ernest Boyle
George Wells Brace
Frederick Billings Brooks
Malcolm Christopher Brown
Alan Stewart Browne
George Raymond Burgess
Kenneth Nason Burnham
Warren Russell Campbell
Frederick Rockwell Chamberlain, Jr.
Roger Tillinghast Clapp
Daniel Wilcox Coggeshall
Joseph Cohen
Harry Francis Coleman
Thomas Michael Conroy
Lawrence Mark Corcoran
George Toomey Curry
Chester Iral Dennis
Martin Joseph Donovan
Willis Bates Downey
Clyde Lester Driscoll
Arthur Warren Duryea
Herman Lorenzo Emidy
Rufus Clinton Fuller, Jr.
Henry George Gilbert
David Duncan Gilchrist, Jr.
Maurice Isaac Green
Harold Eugene Grover
Ronald Prescott Hall
Francis Burton Harrington
Henry George Harris
Mills Harris
Frederick Barber Heath, Jr.
Elmer Raymond Hering
Andrew Fitch Hillhouse

Douglas Albert Holyoke
Edward Howell, Jr.
Donald Washburn Hurd
Kenneth Dewey Johnson
Lawrence Hudson Johnson
Edward Roscoe Kent
Frederick William Lathrop
Lester Trafford Lewis
George Stanislaus McCormick
Thomas James McGovern
Webster MacMillan
William Michael McSweeney
Donald Gordon Millar
Bradford Van Renssalear Moore
Wallace Adams Moyle
Edwin Michael Murphy
Frederick Roger Paty
Russell Mitchell Peters
James Charles Prosser
Clair Joseph Purdy
Romeo Francis Regnier
Hugh Robertson
Henry Tritton Samson
James Chester Scott
George Ernest Shields
Benjamin Howard Slade
Loue Eugene Stockwell
Howard Wilson Tindal
Albert Joseph Tracey
Henry Lawrence Vota
Ashley Prince Westcott
Maynard Pressley White
Leland Amidon Wildes
Carlos Greeley Wright

CLASS OF 1920

Duncan Colin Annan
Leland Steuber Bannister
Chauncy Haven Beasley
George William West Berriman
Kenneth Hills Bitting
Donald Curtis Bowersock
Fred Alma Bragg
Philip Malcolm Brown
Alexander Donald Campbell
George Henry Carr
John Allen Coggeshall
Walter Rayner Cole
William Henry Crawford
Robert Young Crosbie
Clifford Thomas Crowther
Millard Demarest
Mario Walter Mosca De Vitalis
John Winthrop De Wolf, Jr.
Kenneth Soverhill Earle
Milton Edward Earle
Harold Richard Espey
Willard Harmon Forristall
Arthur Jensing Frey
Delbert Orrison Fuller
Ray Woodville Greene, Jr.
Flint Grinnell
James Hemphill
Harry Adolph Hoffman
Newton Jefferson Jackson
Willard Stackhouse King
Russell Ernest Larkin
Ira Ray Laxton
Paul Dominick Loscalzo
Frank Carlin Lynch
Robert Raymond Moyer
Oliver Hall Munroe
Charles Anthony Nuttall
John Coffey Oram
Harold Jillson Pearce
Martin Rudolph Reyder
Harrison Delano Ricketson
William Hood Shupert
Myles Standish
Stanley Alonzo Stevens
Thomas Clarke Stuart
William Matthew Walsh
Thomas Seward Weddell
Francis Guy White

Raymond Herbert Whitehead
Marshall Sears Perry Williams, Jr.
Donald Brigham Winter
John Francis Yeilush

SPECIAL STUDENTS

Malcolm Estern Carder
John Francis Creamer, Jr.
Ralph Benjamin Creamer
Davis Thayer Gallison
George Washington Kowalski
John Lawrence McCormick
Albert Edward Mayoh
Raymond Ellsworth Palmer
John Greene Rice
Charles Lester Scanlon
Louis Charles Vanderstreet

THE WOMEN'S COLLEGE
IN BROWN UNIVERSITY

OFFICERS OF ADMINISTRATION AND INSTRUCTION

THE EXECUTIVE OFFICERS

WILLIAM HERBERT PERRY FAUNCE, D.D., LL.D., President

LIDA SHAW KING, A.M., Litt.D., LL.D., Dean of the Women's College
Professor of Classical Literature and Archaeology

EMMA BRADFORD STANTON, A.M., Registrar of the Women's College

THE FACULTY

ALBERT GRANGER HARKNESS, A.M., Litt.D.
Professor of Roman Literature and History

HENRY BRAYTON GARDNER, Ph.D.
Professor of Economics

COURTNEY LANGDON, A.B.
Professor of the Romance Languages and Literatures

EDMUND BURKE DELABARRE, Ph.D.
Professor of Psychology

WALTER COCHRANE BRONSON, A.M., Litt.D.
Professor of English

WALTER GOODNOW EVERETT, Ph.D.
Professor of Philosophy and Natural Theology;
Director of the School of Education

ASA CLINTON CROWELL, Ph.D.
Associate Professor of the Germanic Languages and Literatures

CARL BARUS, Ph.D., LL.D.
Dean of the Graduate Department; Hazard Professor of Physics

†FRANCIS GREENLEAF ALLINSON, Ph.D.
David Benedict Professor of Greek Literature and History;
Director of the Museum of Fine Arts

HENRY PARKER MANNING, Ph.D.
Associate Professor of Pure Mathematics

† On leave of absence during the first semester, 1917–18.

JAMES QUAYLE DEALEY, Ph.D.
Professor of Social and Political Science

WALTER BALLOU JACOBS, A.M.
Professor of Education; Director of University Extension

ALBERT DAVIS MEAD, Ph.D., Sc.D.
Professor of Biology

ALBERT KNIGHT POTTER, A.M.
Professor of English

ALBERT BUSHNELL JOHNSON, A.M.
Associate Professor of the Romance Languages

JOHN FRANCIS GREENE, A.M.
Associate Professor of Roman Literature and History

JOHN EMERY BUCHER, Ph.D.
Newport Rogers Professor of Chemistry

HENRY THATCHER FOWLER, Ph.D.
Professor of Biblical Literature and History

GEORGE WYLLYS BENEDICT, Ph.D.
Associate Professor of English

THOMAS CROSBY, Jr., A.M.
Associate Professor of English and Public Speaking

CHARLES WILSON BROWN, A.M.
Associate Professor of Geology

HERBERT EUGENE WALTER, Ph.D.
Associate Professor of Biology

ROLAND GEORGE DWIGHT RICHARDSON, Ph.D.
Professor of Pure Mathematics;
Acting Director of the Ladd Observatory

RAYMOND CLARE ARCHIBALD, Ph.D.
Associate Professor of Pure Mathematics

THEODORE FRELINGHUYSEN COLLIER, Ph.D.
Professor of European History

HARLAN HARVEY YORK, Ph.D.
Assistant Professor of Botany

WILLIAM THOMSON HASTINGS, A.M.
Assistant Professor of English

JOHN CORLISS DUNNING, Ph.D.
Assistant Professor of Political Science

STEPHEN SHELDON COLVIN, Ph.D.
Professor of Educational Psychology

ALFRED HARRISON JONES, PH.D.
Assistant Professor of Logic

ROBERT McBURNEY MITCHELL, PH.D.
Assistant Professor of the Germanic Languages and Literatures

ALBERT EDWARD RAND, PH.D.
Assistant Professor of the Germanic Languages and Literatures

KENDALL KERFOOT SMITH, PH.D.
Assistant Professor of Greek Literature and History

CLINTON HARVEY CURRIER, A.M.
Assistant Professor of Mathematics

ROBERT FOSTER CHAMBERS, PH.D.
Assistant Professor of Chemistry

ST. GEORGE LEAKIN SIOUSSAT, PH.D.
George L. Littlefield Professor of American History

M. ELIZABETH BATES
Instructor in Hygiene and Physical Education in the Women's College

WALTER CLARKE PHILLIPS, A.M.
Instructor in English

JOHN SHAPLEY, PH.D.
Instructor in Art

THEODORE HENRY BROWN, PH.D.
Instructor in Mathematics

HAROLD STEPHEN BUCKLIN, A.B.
Instructor in Social Science

EDOUARD R. MASSEY, B. ÈS LETTRES
Instructor in French

HELEN BARNES WHITING, A.B.
Instructor in Biology in the Women's College

ALVIN HARVEY HANSEN, A.M.
Instructor in Economics

NELSON LEWIS GREENE, A.M.
Instructor in Romance Languages

LECTURERS AND ASSISTANTS

EDWIN ERNEST WILDE
Lecturer in Music

ROY FOLLETT, A.B.
Lecturer in English

HELEN FRANCES ORDWAY, A.B.
Assistant in Biology

CAROLINE MILLARD MORTON, A.B.
Assistant in English

BLANCHE NATHALIE DAVIS
Director of Chapel Music

ADMINISTRATIVE OFFICERS

MARY GILMAN AHLERS, A.B.
Director of Grounds and Buildings

EMILY SANGER PADDOCK
Director of Dormitory Life

ELIZABETH WAVE WHITMAN, A.B.
Resident at West Cottage

COMMITTEE ON THE CURRICULUM

Professors GARDNER, LANGDON, BRONSON, EVERETT, ALLINSON, *and* MEAD, *Dean* KING.

EXECUTIVE COMMITTEE

President FAUNCE, *Dean* KING, *Messrs.* HENRY M. KING, STEPHEN O. METCALF, WILLIAM GAMMELL.

ADVISORY COUNCIL

Miss SARAH E. DOYLE, *Miss* AMELIA S. KNIGHT, *Mrs.* GUSTAV RADEKE, *Mrs.* CARL BARUS, *Mrs.* FRANCIS G. ALLINSON, *Miss* MARION S. COLE, *Mrs.* JOHN S. MURDOCK.

ORGANIZATION OF THE WOMEN'S COLLEGE

INSTRUCTION for undergraduate women ‡ is provided by a department of the University known as THE WOMEN'S COLLEGE IN BROWN UNIVERSITY. The aim of the Women's College is to offer to all properly prepared women the same examinations, the same courses of study under the same teachers, and the same degrees that the University offers to men, but to preserve the distinct social life of a separate college.

The Corporation of the University has supervision and control of the Women's College as of other departments of the University, and for this purpose appoints

‡ In the Graduate Department of Brown University all courses intended for graduate students are open to women on the same terms as to men.

annually an Executive Committee of the Women's College. The President of the University is charged with the general direction, supervision, and government of this College as of other departments of the University. The immediate direction, supervision, and control devolve, subject to the direction of the President, on the Dean of the Women's College. An Advisory Council, appointed under the authority of the Corporation, advises with the President and the Dean upon matters relating to the Women's College, and makes recommendations to the Executive Committee of the Women's College or to the Corporation. The immediate administration of the social life of the College, subject to the President of the University and the Dean of the College, rests with the Student Government Association.

The Faculty of the Women's College is composed of the heads of all departments of instruction in Brown University, together with all professors and instructors who are actually teaching in the College.

Catalogues of the Women's College may be obtained from the Registrar of the Women's College in Brown University, Providence, R. I. Requests for information not contained in this Catalogue or in the Bulletins should be addressed to the Dean of the Women's College in Brown University, Providence, R. I.

ADMISSION TO THE WOMEN'S COLLEGE

REQUIREMENTS FOR ADMISSION

THE requirements for admission to the Women's College are the same as those which the University prescribes for men. For information concerning admission by certificate or examination, and the times and places of examinations, see pages 30–33. Certificates and applications for permission to take examinations should be sent to the Registrar of the University. For the entrance requirements for the various degrees, admission to advanced standing, and admission of special students, see pages 34–53. Each applicant for registration as a special student must consult the Dean of the Women's College before registering.

REGISTRATION AND ENROLMENT

The regulations governing registration and enrolment are the same at the Women's College as at the University. (See page 54.) All students must apply for registration and enrolment at the office of the Registrar of the Women's College, in Pembroke Hall, between 9 a.m. and 12 m., or between 2 p.m. and 4 p.m., on either of the two days preceding the opening of College. Permission to change a previous registration must be obtained from the Dean, on the same days and at the same hours.

REQUIREMENTS FOR DEGREES

The requirements for the various degrees are explained on pages 55–64. Upon students of the Women's College who complete satisfactorily the work leading to the degree of Bachelor of Arts, Bachelor of Philosophy, or Bachelor of Science,‡ the Board of Fellows of the University confers the appropriate degree.

FEES

Students at the Women's College pay the tuition fee of $150 in two instalments: $75 upon registration in September and $75 upon registration in February. Freshmen pay a matriculation fee of $5 upon registering in September. No deduction in tuition is made on account of absence. Laboratory fees, etc., must be paid two weeks before the close of a semester. (See pages 172–174).

Special students at the Women's College are charged $15 a semester for each course holding three recitations a week. Laboratory fees are in addition to this.

‡ The Women's College does not at present offer courses leading to the degree of Bachelor of Science.

SPECIAL FEES. Candidates for a first degree who do not pay four years full tuition fees must pay for all extra courses counted toward the degree at the rate of $7.50 per semester for each three-hour course. This amount must be paid at the beginning of the semester preceding the completion of the degree work. This rule does not apply to courses credited from other institutions.

COURSES OF INSTRUCTION

COURSES bracketed are not offered in 1917–18. Courses designated by a † are given at the University; a limited number of approved women students may be admitted to these courses upon application to the Dean of the Women's College. Women are also admitted to certain other University courses with the special permission of the departments concerned and with the consent of the Dean of the Women's College. In starred courses a final mark covering the work of the course as a whole is given at the end of the course, the mark given at the end of the first semester being regarded as temporary.

ART

11, 12. *General History of Art.* Dr. SHAPLEY
Tu., Th., Sat., at 9.25.

13. *Greek Sculpture.* Dr. SHAPLEY
First semester. *Tu., Th., Sat., at 10.25.*

14. *Italian Renaissance Painting.* Dr. SHAPLEY
Second semester. *Tu., Th., Sat., at 10.25.*

15,* 16.* *Freehand Drawing*
Given at the Rhode Island School of Design. Hours to be arranged with the Director.

17,* 18.* *Advanced Drawing*
Given at the Rhode Island School of Design. *Mon., Tu., Wed., at 2.*
Lecture hour to be arranged with the Director.

19.† *Museum Methods*

20.† *Museum Material*

21, 22.† *Art Seminary*

ASTRONOMY

1, 2. *Descriptive Astronomy.* Professor CURRIER
Tu., Th., Sat., at 12.25.

[7, 8.† *Advanced Astronomy*]

BIBLICAL LITERATURE AND HISTORY

1, 2.† *Elementary Hebrew*

11, 12.† *Gospels and Epistles*

[13, 14.† *Acts and Pauline Epistles*]

[15, 16. *Old Testament Literature and History*]

17, 18. *New Testament Literature and History.* Professor Fowler
Tu., Th., Sat., at 9.25.

[19, 20. *The English Bible as Literature*]

21, 22.*† *Biblical Seminary*

[23, 24.† *Alexandrian Jewish Literature*]

27.† *Origin and Growth of the Hebrew Religion*

28.† *Social Teachings of the Prophets and Jesus*

30.† *History of Religion or Philosophy 30*

BIOLOGY

1, 2. *General Biology.* Miss Whiting and Miss Ordway
Tu., Th., Sat., at 11.25.

3, 4. *Comparative Anatomy of Vertebrates.* Professor Walter
Tu., Th., Sat., at 11.25.

[5, 6.† *Anatomy of the Nervous System*]

7, 8. *Embryology and Histology.* Professor Mead
Mon., Th., Fri., at 2.

9, 10.† *Advanced Histology and Pathology*

12.† *General Physiology*

13, 14.† *Chemical Physiology*

15.† *Invertebrate Zoölogy*

16.† *Bacteriology*

17, 18.† *Advanced Bacteriology*

[20. *Ornithology*]

[22.† *Evolution*]

BOTANY

1, 2. *General Course.* Professor York
Tu., Th., Sat., at 12.25.

3, 4.† *Physiological Anatomy*

[5, 6.† *Comparative Morphology and Phylogeny*]

[7, 8.† *Special Course*]

[10. *Trees*]

11, 12.† *Physiology*

13, 14.† *Plant Pathology*

CHEMISTRY

1, 2. *Descriptive Chemistry.* Professor Chambers and Mr. Underwood
Tu., Th., Sat., at 12.25.

3, 4.† *Qualitative and Quantitative Analysis*

5, 6.† *Quantitative Analysis, Advanced Course*

7, 8.† *Organic Chemistry*

10.† *Assaying*

12.† *Organic Dyes*

15, 16.† *Physical Chemistry*

[20.† *Inorganic Chemistry, Advanced Course*]

21, 22.† *Organic Preparations, Advanced Course*

23, 24.† *Inorganic Preparations, Advanced Course*

27, 28.† *Conference on Special Topics in Chemistry*

ECONOMICS‡

1. *Elementary Economics.* Mr. Hansen
First semester. Followed in the second semester by Social and Political Science 1. *Tu., Th., Sat., at 12.25.*

5, 6.† *Money and Banking*

7.† *Problems of Labor and Industry*

8.† *Socialism and Allied Movements*

9.† *Tariff, Reciprocity, and Shipping Subsidies*

[11, 12.† *Public Finance and Financial History*]

[13.† *Statistics*]

15.† *Trade and Transportation in the United States*

16.† *Corporations and Corporation Finance*

17, 18.† *Accounting*

21, 22.† *Investigation of Special Topics*

23, 24.† *Economic Seminary*

EDUCATION

2. *Principles of Education.* Professor Jacobs
First semester. *Mon., Wed., Fri., at 10.25.*

1. *History of Education.* Professor Jacobs
Second semester. *Mon., Wed., Fri., at 10.25.*

‡ Courses in Economics marked with a † are open to undergraduates if elected by three or more students.

3. *Psychology of Education, The Learning Process.* Professor Colvin

First semester. *Mon., Wed., Fri., at 9.25.*

18. *Psychology of Education, Mental Tests and Measurements.* Professor Colvin

Second semester. *Mon., Wed., Fri., at 9.25.*

ENGLISH

1. *Rhetoric and Composition.* Professor Hastings and Mr. Phillips

First semester. *1st div., Mon., Wed., Fri., at 9.25; 2d div., Tu., Th., Sat., at 9.25.*

2. *Rhetoric and Composition.* Professor Hastings and Mr. Phillips

Second semester. *1st div., Mon., Wed., Fri., at 9.25; 2d div., Tu., Th., Sat., at 9.25.*

48. *English Literature from the Beginning to 1700.* Professors Potter and Benedict

Second semester. *Mon., Wed., Fri., at 9.25.*

49. *English Literature from 1700 to 1900.* Professors Potter and Benedict

First semester. *Mon., Wed., Fri., at 9.25.*

5, 6. *English Composition, Advanced Course.* Mr. Follett

Tu., Th., Sat., at 10.25.

[7, 8. *Argumentative Composition*]

[11, 12. *Public Speaking*]

[15, 16.† *Old English*]

[17, 18. *Chaucer*]

23, 24. *The Modern English Drama.* Professor Crosby

Mon., Wed., Fri., at 10.25.

25, 26. *Shakspere.* Professor Benedict

Mon., Th., Fri., at 2.

[27, 28. *Shakspere*]

[29. *English Literature, exclusive of the Drama, from 1558 to 1603*]

[30. *English Literature, exclusive of the Drama, from 1603 to 1660*]

33, 34. *The English Novel.* Mr. Follett
Tu., Th., Sat., at 9.25.

[35. *English Literature from 1798 to 1832, Poetry*]

[36. *English Literature from 1798 to 1832, Prose*]

[37. *English Literature from 1832 to 1892, Prose*]

[38. *English Literature from 1832 to 1892, Poetry*]

[39, 40. *American Literature*]

[43, 44.† *Seminary in English Literature*]

GEOLOGY

[1. *General Geology*]

[6. *Principles of Regional and Economic Geography*]

[5.† *General Geography of Latin America*]

2.† *Historical Geology*

9, 10.† *Mineralogy and Petrography*

11, 12.† *Research in Geology and Geography*

13.† *Problems in Dynamic and Stratigraphic Geology*

[16.† *The Geography of the Western United States*]

GERMANIC LANGUAGES AND LITERATURES

[1, 2. *Elementary Course, First Year*]

[3, 4. *Elementary Course, Second Year*]

5, 6. *Intermediate Course.* Professor MITCHELL
Tu., Th., Sat., at 12.25.

7, 8. *Advanced Course in Classical and Modern Authors.* Professor RAND
Mon., Wed., Fri., at 12.25.

9, 10. *Modern Prose.* Professor MITCHELL
Mon., Wed., Fri., at 12.25.

13, 14.† *The German Short Story*

[15, 16. *The German Drama of the Nineteenth Century*]

17, 18. *Lessing and Schiller.* Professor CROWELL
Tu., Th., Sat., at 9.25.

[23, 24.† *Goethe*]

25, 26.† *German Literature to the End of the Classical Period*

[27, 28.† *German Literature in the Nineteenth Century*]

[31.† *Gothic*]

[32.† *Old High German*]

35, 36.† *Middle High German*

GREEK LITERATURE AND HISTORY

A, B. *Beginner's Course: Greek Grammar, Xenophon, and Homer.* Professor SMITH
Tu., Th., Sat., at 12.25.

1. *Homer and other Greek Poetry exclusive of the Drama.* Professor Smith
First semester. *Tu., Th., Sat., at 9.25.*

2. *Plato and Lysias.* Professor Allinson
Second semester. *Tu., Th., Sat., at 9.25.*

[3. *Lucian and the Dramatic Poets*]

[4. *The Historians*]

[5. *The Drama*]

[6. *Oratory*]

[7. *Plato*]

[8. *Aristotle*]

12. *Greek Composition.* Professor Allinson
Second semester.

15. *Greek Civilization.* Professor Allinson
Second semester. *Mon., Wed., Fri., at 11.25.*

17, 18. † *Greek Seminary*

[20. *Introduction to Greek Archaeology*]

HISTORY

1, 2. *Medieval and Modern History of Europe.* Professor Collier
Mon., Wed., Fri., at 11.25.

[3. † *History of Christianity: Early and Medieval Period*]

[4. † *History of Christianity: From the Reformation to the Present*]

[5. *The French Revolution and the Napoleonic Era*]

[6. *Europe since 1815*]

[7. *English History to 1603*]

8. *English History since 1603.* Professor COLLIER
First semester. *Tu., Th., Sat., at 9.25.*

10. *History of Germany since 1648.* Professor COLLIER
Second semester. *Tu., Th., Sat., at 9.25.*

11, 12.† *Seminary in European History*

17, 18. *American History.* Professor SIOUSSAT
Mon., Wed., Fri., at 11.25.

[19, 20.† *American History to 1787*]

21, 22.† *The United States under the Constitution*

25, 26. † *Seminary in American History*

MATHEMATICS

2. *Plane Trigonometry.* Professor MANNING and Dr. BROWN
First semester. *1st and 2d divisions, Tu., Th., Sat., at 10.25.*

1. *Solid and Spherical Geometry.* Professor RICHARDSON and Dr. BROWN
Second semester. *Tu., Th., Sat., at 10.25.*

3. *Algebra.* Professor ARCHIBALD
Second semester. *Mon., Wed., Fri., at 10.25.*

5. *Plane Analytic Geometry.* Professor ARCHIBALD
First semester. *Tu., Th., Sat., at 10.25.*

6. *Analytic Geometry and Differential Calculus.* Professor ARCHIBALD
Second semester. *Tu., Th., Sat., at 10.25.*

7, 8.† *Differential and Integral Calculus*

9.† *Differential Equations*

[11.† *Analytic Geometry of Three Dimensions*]

[12.† *Modern Analytic Geometry*]

21, 22.† *Function Theory of a Complex Variable*

[23, 24.† *Theory of Differential Equations*]

[25, 26.† *Advanced Algebra*]

27, 28.† *Projective Geometry*

[29, 30.† *Introduction to Analysis*]

[31, 32.† *Applications of Calculus to Geometry*]

[39, 40.† *Course in Advanced Topics*]

41, 42. *Fundamental Problems of Algebra.* Professors Richardson and Manning
Mon., Wed., Fri., at 12.25.

[43, 44. *Foundations, Methods, and Problems of Geometry*]

MUSIC

1. *The Appreciation of Music.* Mr. Wilde
First semester. *Mon., Wed., Fri., at 11.25.*

2. *Romanticism in Music.* Mr. Wilde
Second semester. *Mon., Wed., Fri., at 11.25.*

PHILOSOPHY

1, 2. *Introduction to Philosophy.* Professor Jones
Mon., Wed., Fri., at 11.25.

3, 34. *Psychology.* Professor Delabarre
Tu., Th., Sat., at 10.25.

4. *Ethics.* Professor Everett
Second semester. *Mon., Wed., Fri., at 10.25.*

5, 6.† *Psychology, Intermediate Course*

[7, 8. *History of Philosophy*]

9. *Philosophy of Religion.* Professor Everett
First semester. *Mon., Wed., Fri., at 10.25.*

10. † *Applications of Psychology*

11, 12. † *Experimental Psychology, Introductory Laboratory Course*

17, 18. † *Psychology, Advanced Course*

19, 20. † *Experimental Psychology, Advanced Laboratory Course*

30. † *History of Religion or Biblical Literature 30*

PHYSICS

1, 2. *Elementary Physics.* Professor Barus
Mon., Wed., Fri., at 11.25.

3, 4. † *Elementary Physics, continued*

5, 6. † *Experimental Physics*

[7, 8. † *Mathematical Treatment of Dynamical Problems*]

[9, 10. † *Mathematical Theory of Electricity and Magnetism*]

11, 12. † *Advanced Laboratory Course*

13, 14. † *Applied Harmonic Analysis and Applied Vector Analysis*

15, 16. † *Physics, Advanced Course*

23, 24. † *Precision Measurements in Photometry, Electricity, and Magnetism*

25, 26. † *Radiation, Optics, and Heat*

ROMAN LITERATURE AND HISTORY

1. *Cicero's De Senectute, De Amicitia; Terence's Phormio.* Professor Greene
First semester. *Mon., Th., Fri., at 2.*

2. *Selections from Horace.* Professor GREENE
Second semester. *Mon., Th., Fri., at 2.*

3. *Catullus and Virgil's Eclogues.* Professor KING
First semester. *Mon., Wed., Fri., at 10.25.*

4. *Plautus' Captivi, Trinummus, Rudens.* Professor HARKNESS
Second semester. *Mon., Wed., Fri., at 10.25.*

[5, 6. *Latin Poetry*]

[7, 8. *Latin Prose*]

[11, 12. *Latin Composition*]

16. *Roman Civilization.* Professor GREENE
First semester. *Mon., Wed., Fri., at 11.25.*

ROMANCE LANGUAGES AND LITERATURES

1, 2. *Elementary Course, First Year.* Mr. GREENE
Mon., Wed., Fri., at 10.25.

5, 6. *Intermediate French.* Mr. MASSEY
Mon., Wed., Fri., at 10.25.

7, 8. *Advanced French.* Professor LANGDON and Mr. GREENE
1st div., Tu., Th., Sat., at 11.25; 2d div., Tu., Th., Sat., at 9.25.

9, 10.† *The Realistic School*

11, 12. *The Romantic School.* Professor LANGDON
Tu., Th., Sat., at 9.25.

13, 14. *The Classical School.* Professor JOHNSON
Mon., Wed., Fri., at 8.

15, 16. *Elementary Spanish, First Year.* Professor JOHNSON
Mon., Wed., Fri., at 12.25.

[17, 18. *Elementary Italian, First Year*]

[19, 20. *Dante in English*]

21, 22.† *Elementary Spanish, Second Year*

[23, 24.† *Practice in Writing and Speaking French*]

SOCIAL AND POLITICAL SCIENCE

SOCIAL SCIENCE

1. *Elementary Social and Political Science.* Professor DEALEY
Second semester. *Tu., Th., Sat., at 12.25.*

3, 4. *Social Work in Times of War.* Mr. BUCKLIN
Tu., Th., Sat., at 11.25.

5.† *Origin and Development of Society*

[7.† *Sociology as a Science*]

16.† *Social Psychology*

[8.† *Sociology in its Applications*]

9.† *Racial and Immigration Problems in the United States*

10.† *Social Problems Affecting the Child and the Juvenile*

[11, 12.† *Seminary in Sociology*]

13, 14.† *Social Investigation and Training*

POLITICAL SCIENCE

1. *Elementary Political Science*
See Social Science 1.

3. *The National Government of the United States.* Professor DEALEY
First semester. *Tu., Th., Sat., at 10.25.*

6. *Principles of International Law.* Professor DUNNING
Second semester. *Tu., Th., Sat., at 10.25.*

HYGIENE AND PHYSICAL EDUCATION ‡

M. Elizabeth Bates, *Instructor in Hygiene and Physical Education*

1. *Freshman Course*

In the fall and spring, sports. From Thanksgiving to the spring recess, gymnastics, games, dancing, reading, and conferences in practical hygiene.

Three hours. Through the year. Required of all Freshmen. *Mon., Th., Fri., at 3.*

2. *Sophomore Course*

Similar to the Freshman course, but more advanced.

Three hours. Through the year. Required of all Sophomores. *Mon., Th., Fri., at 2.*

3. *Junior and Senior Course*

Similar to the Sophomore course, but more advanced. Two periods of sports may be substituted for gymnastics.

Three hours. Through the year. Required of all Juniors and Seniors. *Tu. at 2,* and two other hours at the convenience of the student.

4. *Play Course*

Play, games, and folk-dances suitable for elementary schools, playgrounds, and social settlements.

One hour. From Thanksgiving to the spring recess. Elective for all students. *Tu. at 3.*

All resident students are required to take one hour of exercise each day.

PREMIUMS, PRIZES, AND HONORS

The Gaspee Chapter Daughters of the American Revolution Prize. This prize of forty dollars is awarded annually to that student in the Senior or Junior class of the Women's College who shall present the best essay of recognized merit upon some topic in American history. The essays are to bear each an assumed name, and to be accompanied by an envelope marked with the assumed name and inclosing the candidate's real name and address. The essays must be handed to the Dean before May 15. The award is announced at Commencement. The subject for 1917–18 is: *Rhode Island's French Visitors during the Revolutionary War.* The subject for 1916–17 was:

‡ For further information about the Department of Hygiene and Physical Education, see page 247.

The British and French in Rhode Island during the Revolutionary War. The prize was awarded to

BERTHA MAE PRENTISS

THE CHACE PRIZE. The will of Mrs. Elizabeth D. Chace makes provision for a prize of twenty-five dollars, to be awarded to that student of the Women's College who shall present the best essay, of recognized merit, upon the Women's Suffrage Movement. The essays must be handed to the Dean before May 15.

THE SOCIETY OF COLONIAL DAMES PRIZE IN AMERICAN HISTORY. The income of a fund of fifteen hundred dollars, known as the Roger Williams Fund established by the National Society of Colonial Dames in the State of Rhode Island and Providence Plantations, given to the University in 1906, is awarded annually as a prize for the best essay on a subject in American colonial history. The competition is open to Juniors, Seniors, and Graduates, and to men and women on equal terms. Essays must show independent use of authorities, and should, in general, extend to at least four thousand words. Competitors must give their names to the head of the Department of History by March 1; the essays must be handed to the Dean before May 12. The award is announced at Commencement. The subject for 1917–18 is: *The Charter of Rhode Island and Providence Plantations, 1663: An Account of its Origin.*

THE EDYTHE PECK ADAMS PRIZE. This prize is offered by the Class of 1901 for the best short story written by an undergraduate of the Women's College. The essays must be handed to the Dean before May 15.

ADDITIONAL PREMIUMS. The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered in Brown University. In case any woman is entitled to a first premium, competed for by examination, a prize, the amount of which is duly announced, is awarded by the College. In 1916–17 the following premiums were awarded to women:

A collateral first premium in preparatory French to LETTIE HARRIET ROBIDON, instructed in the Norwood High School, Norwood, Massachusetts.

A collateral first premium in preparatory German to PAULINE ALVERSON BARROWS, instructed in the Classical High School, Providence.

FINAL HONORS are awarded by the University to women on the same conditions as to men. See pages 192, 193.

FINANCIAL AID TO STUDENTS

FELLOWSHIPS AND SCHOLARSHIPS

The Emma Josephine (Ayer) Arnold Archaeological Fellowship, of ten thousand dollars, founded by Dr. Oliver H. Arnold in memory of his wife; the income is awarded, first, to a member of the graduating class, or, second, to a graduate of not more than ten years' standing, who is adequately prepared for post-graduate work in Archaeology, either Classical or Oriental, and who through scholarly attainments and by habits of zealous and diligent study gives great promise of a useful and successful career. The income is to be applied to the expenses of a one, two, or three year course in Archaeology either in the United States or in any foreign country. In case there is no applicant of sufficient merit among the graduates of the Women's College, the Fellowship is to be awarded for one year to a male graduate of the University who meets the above requirements. If there are no applicants for the use of this Fellowship in Archaeology, it is to be given for one year of post-graduate work in Higher Mathematics to a graduate of the Women's College who has exceptional ability and intends to follow the teaching of Mathematics as a profession. Applications for this Fellowship should be accompanied by academic records, testimonials as to character, ability, and health, specimens of written work, and a statement of the applicant's plan of work, and should be sent to the Dean of the Women's College before January 1.

The Annie Crosby Emery Alumnae Fellowship was founded by the Alumnae Association of Brown University in 1914. The purpose of the Fellowship, maintained in honor of the second dean of the Women's College in Brown University, is to stimulate the intellectual life of the undergraduate students. It is awarded as an academic honor to a member of the graduating class on the basis of scholarly ability, excellence and breadth of general character, and good health. This Fellowship is to be used for a year of graduate study at any American university or college of acknowledged standing. It is not to be applied for, but is awarded each year, if there is a candidate of sufficient excellence. The formal announcement of the award is made by the Dean at Chapel exercises.

The Sarah E. Doyle Scholarship, of one thousand dollars, which bears the name of its founder; the income is applied toward the payment of the tuition of students in the Women's College who have been prepared for college in the Providence English High School.

The Sarah Sutton Scholarship, of one thousand dollars, founded by one of her daughters.

The Daniels Scholarship, of twenty-five hundred dollars; the income to be used toward paying the expenses of one or more women pursuing studies either in the University or in the Women's College.

The Howard Scholarship, of one thousand dollars, presented by James Leland Howard.

The Thayer Scholarship, founded by Edward C. Thayer, in honor of his father, Joseph Thayer, of the class of 1815; the income to be for the education of any young man or woman, a resident of Uxbridge, Mass., indorsed by the selectmen and superintendent of schools there, needing pecuniary aid, and giving promise by character and scholarship of a life of usefulness. If there is no applicant from Uxbridge, the income may go to any applicant from Massachusetts who fulfils the conditions.

The Maria Storrs Peck Scholarship, of one thousand dollars, presented by her sisters.

The Eli Thayer Scholarship of the Oreads, of three thousand dollars, founded by the Oread Collegiate Institute Association, in memory of the Hon. Eli Thayer, the founder of the Institute; the income to be for the education of a deserving student in the Women's College, preferably a descendant of a former student of the Institute.

The William Fuller Ayer Scholarships, two of two thousand dollars each, one of one thousand dollars, founded by Dr. Oliver H. Arnold in memory of William Fuller Ayer; the income is given "to poor and deserving students showing diligence and marked ability in their collegiate studies."

The David W. Hoyt Scholarship, of twenty-seven hundred dollars, founded by the Alumni Association of the Providence English High School; the income to go each year to some young man or woman designated by the Principal or the Acting Principal of the Providence High School, subject to the approval of the President or the Acting President of Brown University.

The Susan E. King Scholarship, of one thousand dollars, the income to be given preferably to a member of the First Baptist Church in Providence.

The Churchill Fund, with an annual income of eighty dollars, founded by the Rhode Island Women's Club; the income to go each year to some student in the Women's College, preferably the daughter of a member of the Club.

Reduction in tuition fees is made by the College to a certain number of students, provided they are in need of such aid and maintain a high standard of scholarship. Application for reduction of tuition fees should be made in writing to the Dean of the Women's College on or before May 1.

THE LOAN FUNDS

A Loan Fund, established and maintained by the Rhode Island Society for the Collegiate Education of Women, is available for the use of Sophomores, Juniors, and Seniors, who may borrow moderate sums at a low rate of interest. Further information may be obtained from the Dean of the Women's College.

A Loan Fund, established and maintained by the Alumnae Association of Brown University, is available for the use of Freshmen, who, in the judgment of the Alumnae trustees of the Fund, shall show promise of scholarly attainment.

THE SELF-SUPPORT COMMITTEE

The Self-Support Committee has for its purpose the care of students who need to earn money. It aims to secure employment for students, to regulate as far as possible the compensation and the conditions of outside work, and to make the amount of such work commensurate with the physical and mental strength of the student.

THE LIDA SHAW KING DECENNIAL FUND

This Fund, of five thousand dollars, was founded by the Rhode Island Society for the Collegiate Education of Women in honor of Miss King's ten years of service as Dean. The income is to be used "for the entertainment of guests, and the maintenance of the social and cultural side of college life."

THE COLLEGE BUILDINGS

THE Women's College has a separate recitation hall, gymnasium, dormitories, basket-ball and tennis grounds; but uses the various libraries, laboratories, and museums of the University. For a description of these latter buildings, see pages 155–162. The grounds of the Women's College are an eighth of a mile from the University, with the main entrance at 172 Meeting Street. Pembroke Hall, the recitation building, contains the offices of the Dean and the Registrar, the chapel, recitation rooms, a reading room, a reference library, a study, and a lunch room. Sayles Gymnasium contains the office of the Instructor in Hygiene and Physical Education, a large hall with a gallery, two rest rooms, a room for corrective work, and a social room; the basement is fitted with dressing rooms, lockers, bathrooms, needle and shower baths, and bowling alleys.

The College has two dormitories. Miller Hall, 118 Cushing Street, contains forty-eight single rooms for students, together with a library, and reception, dining, and sitting rooms. The charges for room and board vary from $260 to

$270 a year plus a maintenance fee of $10. West Cottage, 98 Cushing Street, contains eight double rooms, one single room, and one room for three students, together with a reception room and a dining room. It is a coöperative house, the housework being done by the students. The charge for room and board is $5 per week. Printed plans of the dormitories, together with other information, may be obtained from the Dean of the Women's College.

Students who cannot secure rooms on the campus are required to live in houses approved by the College.

PROVISION FOR WORSHIP, HEALTH, AND RECREATION

CHAPEL

CHAPEL services, with special speakers and with music furnished by the College choir, are held in Pembroke Hall four days a week. Attendance is required. One chapel service each month is in charge of the Christian Association.

HYGIENE

The Department of Hygiene and Physical Education aims to encourage habits of healthful living, with special emphasis upon proper posture, rational exercise, and rest. To this end all new students are required to attend lectures in Hygiene; conferences are held; physical examinations are given before the assignment of exercise and at the end of the year by the Instructor in Hygiene and by Dr. Frank T. Fulton; facilities are provided for exercise and rest; and there is a reference library of books on practical hygiene. Students who, because of their organic condition or temporary disability, are unable to take the regular class work, are given restricted or corrective exercise, or prescribed periods in the rest room, as a substitute. Outdoor sports are supervised by the Instructor in Hygiene.

STUDENT ORGANIZATIONS AND ENTERTAINMENTS

The Christian Association conducts weekly meetings, generally addressed by some speaker of experience; provides classes for the study of the Bible and of missions; and maintains an Employment Bureau which works with the Self-Support Committee to secure employment for students. There are French, German, Philosophical, and Mathematical Clubs, which carry on their work in connection with the academic departments concerned. The College Forum gives an opportunity to all students for open discussion of the important questions of the

day, under the leading of competent men and women. The Question Club, a society composed of the presidents of all the large student organizations, is helpful in forming opinion on matters of student interest. There are two undergraduate publications, *The Sepiad*, a literary periodical, and *The Brün Mael*, an annual review of College life. Interest in the drama and music is fostered by a dramatic society; by a glee club; by the annual presentation of an original Sophomore masque; and by an annual song contest between the classes. The Athletic Association coöperates with the Department of Hygiene by arranging bowling, tennis, and basket-ball tournaments. Class organizations, an all-college society, and an advisory system, whereby members of the senior and junior classes are given responsibility for the welfare of the Freshmen, promote sociability and the spirit of helpfulness.

Lectures, concerts, and other entertainments are provided from time to time by the College.

FORM OF BEQUEST

All gifts, legacies, and bequests for the Women's College should be made payable to "Brown University, in Providence, in the State of Rhode Island and Providence Plantations," and designated for the use of the Women's College.

STUDENTS IN THE WOMEN'S COLLEGE

SENIORS: CLASS OF 1918

NAME		RESIDENCE
Doris Dwinel Aldrich	P	*Providence*
Dorothy Carter Allan	A	*Newport*
Marian Elizabeth Anthony	A	*Barrington*
Ida Elizabeth Arnold	P	*Providence*
Esther Barnet	P	*New Bedford, Mass.*
Lillian Dorothy Beals	A	*Cranston*
Mary Isabel Briggs	A	*East Greenwich*
Margaret Allyn Carpenter	P	*Pawtucket*
Jennie Cooperstein	A	*Taunton, Mass.*
Dorcas Anna Davis	P	*Providence*
Clara Elizabeth Dealey	A	*Providence*
Lillian Catherine Dow	A	*Pawtucket*
Edith Earle	P	*Cranston*
Marie Ettl	A	*Leonia, N. J.*
Elsie May Flint	A	*Providence*
Dorothy Foster	A	*Auburn*
Marie Blanche Frégeau	A	*New Bedford, Mass.*
Esther Lucy Greene	P	*Edgewood*
Marion Naomi Hudson	P	*Portland, Me.*
Mae Emily Jackson	A	*Woonsocket*
Agnes Isadore Johnson	A	*East Providence*
Mabel Constance Kenyon	P	*Hopkinton*
Marian Edna Knowles	P	*Campello, Mass.*
Marie Stella Lafrance	A	*Central Village, Ct.*
Marjorie Pierce Lake	A	*Providence*
Irene Hazel Magaveny	A	*Attleboro, Mass.*
Mabel Elizabeth Middleton	P	*Providence*
Imogene Louise Minkins	A	*Pawtucket*
Sarah Ida Morse	A	*Providence*
Helen Axtell Mowry	A	*Woonsocket*
Elizabeth Rogers O'Donnell	A	*Woonsocket*
Edna Louise Paine	P	*Chepachet*
Ellen Rose Pearce	A	*Hawaii*
Jane Frances Peckham	A	*Bradford*
Marion Robins Pfeiffer	P	*Providence*
Rose Presel	P	*Providence*
Beatrice Sophia Rayment	A	*Taunton*
Hannah Grace Roach	A	*Springfield, Mass.*

NAME		RESIDENCE
Marion Sherman	A	*Bristol*
Annie Desmond Sisson	A	*Bristol*
May Sperry	P	*Oak Lawn*
Mildred Mary Stanton	A	*Pawtucket*
Isabel Louise Taylor	P	*Meshanticut*
Anne Terry	P	*Springfield, Mass.*
Mary Clarke Tucker	P	*Narragansett Pier*
Ruth Wakefield	A	*Providence*
Madeleine Howe Webster	A	*East Providence*
Ruth Estella Wells	P	*Anthony*
Olive Collins White	A	*Providence*
Janet Agnes Williamson	A	*Newport*
Caroline Louisa Wright	P	*Providence*

JUNIORS: CLASS OF 1919

Helen Tucker Albro	A	*Peace Dale*
Marietta Ellen Beehan	A	*Providence*
Alice May Bentley	A	*East Greenwich*
Hazel Elsie Bliss	A	*Providence*
Esther Elizabeth Brintzenhoff	A	*Reading, Pa.*
Caroline Elizabeth Capwell	A	*Providence*
Mary Elizabeth Carroll	P	*New Bedford, Mass.*
Evelyn Chase	P	*Providence*
Madrid Loretta Collette	P	*Fisherville, Mass.*
Ruth Crawford Coombs	A	*East Providence*
Gladys Louise Crapo	P	*Taunton, Mass.*
Marion Alberta Day	A	*Providence*
Novella May Eastman	A	*Woonsocket*
Martha de Meritte Gage	P	*Edgewood*
Edith Lee Goff	A	*Pawtucket*
Ruth Storer Green	A	*South Willington, Ct.*
Elizabeth Ellery Hammett	A	*Newport*
Hazel Dadmun Hartwell	A	*Providence*
Bessie Higgins	P	*Mount Hope, N. Y.*
Elaine Virginia Hildrup	P	*Providence*
Hope Louise Humes	P	*East Providence*
Ruth Huntington	A	*Newport*
Marion West Johnson	A	*Arctic*
Madeline Cecelia Keefe	A	*Fall River, Mass.*
Ruth Chace Lester	P	*Providence*
Helen Frances McAndrews	P	*Providence*
Edna Ruth Macdonald	A	*East Providence*

NAME		RESIDENCE
Mary Gladys Mahoney	A	*Providence*
Vashti Celestine Maxwell	A	*Baltimore, Md.*
Elsa Marguerite Metzger	P	*Providence*
Sophie Mogilevkin	P	*Pawtucket*
Mildred Morse	P	*Woonsocket*
Miriam Fern Nuzum	A	*New Bedford, Mass.*
Theresa Elizabeth O'Brien	A	*Providence*
Mary Frances O'Rourke	A	*Providence*
Winifred Helen Olendorf	A	*Ware, Mass.*
Ruth Dorothea Peterson	A	*Providence*
Miriam Prentice	P	*Providence*
Elizabeth Jemima Ross	P	*South Seekonk, Mass.*
Edith Frances Smith	A	*Warren*
Mildred Josephine Smith	A	*Providence*
Ruth Sword	A	*Springfield, Mass.*
Florence Rose Thomae	A	*Attleboro, Mass.*
Ingeborg Mathilda Toll	P	*Manville*
Helen Jenks Vaughn	P	*Providence*
Una Vestella Whipple	A	*West Wrentham, Mass.*
Edna Elizabeth Whitford	P	*Centerville, Mass.*
Magel Craig Wilder	A	*Thornton*
Frances Woodworth Wright	A	*Providence*

SOPHOMORES: CLASS OF 1920

Marguerite Adelaide Armstrong	P	*Manton*
Marguerite Ashley	P	*West Barrington*
Dorothy Charlotte Baker	P	*Providence*
Kathleen Mary Barr	A	*Providence*
Dorothy Westervelt Bennett	P	*North Providence*
Mary Ball Blake	P	*Providence*
Edith Steele Bowen	A	*Providence*
Anna Pauline Butler	A	*Pawtucket*
Ruth Pearson Chandler	P	*Scranton, Pa.*
Mildred Frances Chase	A	*Providence*
Hope Arnold Cushing	A	*North Providence*
Gladys Hobart Damon	P	*Rockland, Mass.*
Mariette De Robbio	P	*Providence*
Ruth Isabel Dowell	P	*Providence*
Margaret Simpson Duguid	P	*North Grafton, Mass.*
Rachel Tupper Easterbrooks	A	*Newport*
Laurice Emilie Flagg	P	*Littleton, Mass.*
Elizabeth Mary Galvin	A	*East Greenwich*

NAME		RESIDENCE
Minerva Rilla Gates	P	*Providence*
Nettie Goldberg	P	*Fall River, Mass.*
Zylpha Marie Goulett	P	*Stevenson, Ct.*
Florence Spence Harvey	A	*North Grafton, Mass.*
Constance Margaret Hayden	P	*Providence*
Dorothy Stephans Holt	A	*Pawtucket*
Mary Gertrude Honan	A	*Anthony*
Mary Elizabeth Kelley	A	*Grafton, Mass.*
Helen Hortense Kelly	A	*Woonsocket*
Rebecca Parker Latham	P	*Smithfield*
Grace Ethelena Lewis	P	*Providence*
Grace Mildred McCall	A	*Reading, Pa.*
Madonna Violet McDermott	A	*Providence*
Alice Irene MacDonald	A	*Wickford*
Grace Leonard Macomber	A	*Chicopee, Mass.*
Grace Heath Maurer	A	*Reading, Pa.*
Frances Morrill Merriam	A	*Providence*
Charlotte Anna Mikalson	A	*Methuen, Mass.*
Rosa Jessup Minkins	A	*Pawtucket*
Cecelia Madeleine Morin	A	*Willimantic, Ct.*
Helen May Newbury	P	*Palmer, Mass.*
Harriet Ellen Perry	A	*Providence*
Avis Miller Pillsbury	P	*Providence*
Elsie May Potter	A	*Natick*
Margaret Louise Pressey	A	*Ashton*
Dorothy Preston	P	*Providence*
Margaret Preston	A	*Providence*
Fannie Emogene Price	A	*Pawtucket*
Magdalen Margaret Quinn	A	*Phenix*
Marion Wood Raybold	A	*Providence*
Clara Gertrude Reiseroff	P	*Providence*
Mary Augusta Rhodes	P	*Providence*
Mildred Elizabeth Runyeon	A	*Reading, Pa.*
Marion Salisbury	P	*North Scituate*
Evelyn Adelia Salmon	P	*Brooklyn, Ct.*
Rosa Lee Schneider	A	*Providence*
Minna Golda Schreiber	P	*Providence*
Beatrice Alice Smith	P	*Pawtucket*
Mary Elizabeth Spencer	A	*Warwick*
Bernice Sylvester	A	*Brockton, Mass.*
Katharine Adelaide Torrey	P	*Providence*
Helen Kingsbury Wallace	P	*Bristol*
Miriam Elizabeth Weaver	A	*Central Falls*

NAME		RESIDENCE
Marjorie Isabel Webster	P	*Providence*
Nettie Wilsker	A	*Newport*
Marjorie Helen Woodward	A	*Springfield, Mass.*
Lucy Marie Young	P	*Brockton, Mass.*

FRESHMEN: CLASS OF 1921

Sadie Denie Abrich	P	*Providence*
Marion Atherton	A	*Providence*
Pauline Backus	P	*Providence*
Pauline Alverson Barrows	A	*Providence*
Madeline Bird	P	*Milwaukee, Wis.*
Florence Allin Black	A	*Warren*
Avice Estella Bliss	A	*Providence*
Olive Flora Briggs	A	*East Greenwich*
Mabel Dorothy Brown	P	*Schenectady, N. Y.*
Dorothy Emmons Bryant	A	*Saylesville*
Fannie Irwin Campbell	A	*Phenix*
Lillian Hedwig Nathalie Carlen	P	*Providence*
Mildred Eleanor Carlen	P	*Providence*
Dorothy Chace	P	*Providence*
Zita Mary Cook	P	*Woonsocket*
Helen Cooper	A	*Attleboro, Mass.*
Lena Lucile Crapo	P	*Taunton, Mass.*
Sarah Crovitz	P	*Cranston*
Mary Wilbur Cushman	P	*Acushnet, Mass.*
Agnes Anne Davitt	P	*Providence*
Gertrude Priscilla Dimick	P	*Providence*
Augustine Dimond	P	*So. Dartmouth, Mass.*
Florence Gertrude Eddy	P	*Providence*
Gertrude Eisenberg	P	*Pawtucket*
Lorraine Hunter Ferguson	P	*Providence*
Ruth Elizabeth Flemming	A	*Lonsdale*
Frances Alice Foos	P	*Reading, Pa.*
Dorothea Elizabeth Francis	P	*Washington, D. C.*
Ida Frant	A	*Newport*
Florence Agnes Gilbert	P	*Putnam, Ct.*
Beatrice Luise Guildford	P	*Providence*
Mary Isabelle Halloran	A	*Natick*
Ruth Jane Hendrick	A	*Manville*
Ruth Hill	P	*Brooklyn, N. Y.*
Sarah Ann Hill	A	*Riverside*
Josephine Alice Hope	A	*Edgewood*

NAME		RESIDENCE
Esther Marie Johnson	A	*Springfield, Mass.*
Gladys Mae Jordan	P	*Swansea, Mass.*
Elizabeth Linden Kiley	A	*Pawtucket*
Anna Blanche La Fond	P	*Woonsocket*
Elsie Ellen Lord	P	*Providence*
Rena Margaret Ludgate	A	*Pawtucket*
Alice Margaret Mackenzie	P	*Arnold s Mills*
Dorothy Elaine Maxwell	A	*Slatington, Pa.*
Helen Irene Miller	A	*Attleboro, Mass.*
Frances Mattiline Money	P	*Westerly*
Elisabeth Nightingale	P	*Moosup, Ct.*
Mary Greeley Alberta O'Neil	A	*Providence*
Margaret Comstock Packer	A	*Waterbury, Ct.*
Flora Belle Peirce	P	*New Bedford, Mass.*
Florence Elizabeth Pettibone	P	*New Milford, Mass.*
Lettie Harriet Robidon	A	*Ellis, Mass.*
Margaret Drowne Ross	P	*Providence*
Mollie Nyma Rubenstein	P	*Providence*
Leonilda Sansone	A	*Bristol*
Palmyra Rose Serpa	P	*Providence*
Pauline Frances Shaw	A	*East Providence*
Susan Theresa Shea	A	*Brockton, Mass.*
Irene May Sheehan	A	*Central Falls*
Fannie Beatrice Smith	A	*Providence*
Anna St. John Torrey	A	*Providence*
Virginia Lee Tourtellot	P	*Providence*
Selena Grace Veal	P	*Westerly*
Olive Louise Wätjen	P	*Warren*
Adeline Bell Wetmore	A	*Watertown, Ct.*
Lois Wilbur	P	*New Bedford, Mass.*
Ida Wilsker	A	*Newport*

SPECIAL STUDENTS

Alice Clara Beirne	*Providence*
Grace Margaret Coyne	*Tiverton*
Ruth Hortense Dane	*Providence*
Zillah Jane Dower	*Pawtucket*
Mary Gertrude Gilles	*Attleboro, Mass.*
Mary Cornelia Greene	*Providence*
Florence Eliza Griswold	*Providence*
Elvira Peña Hass	*Rehoboth, Mass.*
Elizabeth L. June	*Woonsocket*

NAME	RESIDENCE
Katherine Sheldon Knowles	*Pawtuxet*
Martha Jane Roberts	*Attleboro, Mass.*
Francis Semle	*Providence*
Elizabeth Forrest Sutherland	*Providence*
Mildred Leslie Waters	*New Bedford, Mass.*
Ruth Marietta White	*Greene*
Stella Elizabeth Whittaker	*Woonsocket*

APPENDIX

THE BROWN UNIVERSITY TEACHERS' BUREAU

THE Brown University Teachers' Bureau was established for the purpose of facilitating communication between the heads of educational institutions and graduates of Brown who desire positions as teachers. To this end it solicits correspondence with those who are seeking teachers, and invites inspection of the list of teachers now registered. It advises graduates of Brown who wish its assistance to register at once, and, if possible, to meet the Secretary in a personal interview. It offers to undergraduates information as to subjects in which there is a demand for teachers, as to positions commonly open to recent graduates, and as to the preparation usually required. No charge for the services of the Bureau is made either to students or to schools. It is the further purpose of the Bureau to foster coöperation between the University and all graduates engaged in the work of education. As far as possible an accurate register of the addresses and the positions of all such graduates is kept. The office of the Secretary, Professor Walter Ballou Jacobs, is in the John Hay Library.

THE BROWN UNIVERSITY TEACHERS' ASSOCIATION

The Brown University Teachers' Association was organized in 1903. The purpose of the Association is "first, to further the mutual interests of Brown University and the schools preparing students therefor; and second, to promote the welfare of the Alumni of the University who are teachers." The fifteenth annual meeting of the Association was held at Brown University on Friday and Saturday, March 30, 31, 1917.

OFFICERS FOR 1917–18

President: Isaac Oscar Winslow, A.M., *Superintendent of Schools, Providence.*

Vice-Presidents: Stephen Sheldon Colvin, Ph.D., *Professor of Educational Psychology, Brown University;* Charles Henry Forbes, A.B., *Professor of Latin, Phillips Academy, Andover, Mass.*

Secretary: Walter Ballou Jacobs, A.M., *Professor of Education, Brown University.*

Treasurer: Clarence Hartwell Manchester, A.M., *Assistant Principal, Technical High School, Providence.*

Executive Committee: The Officers of the Association and the President of the University, *ex officio;* William Colver Hill, A.M., *Principal High School, Springfield, Mass.;* Robert Jaquith Fuller, A.B., *Superintendent of Schools, North Attleboro, Mass.;* Edith Holmes Williston, A.M., *Technical High School, Providence.*

THE RHODE ISLAND ALPHA OF THE PHI BETA KAPPA SOCIETY

OFFICERS AND COMMITTEES FOR 1917–18

President: Charles Carney Mumford, A.M.

Vice-President: Professor Walter Cochrane Bronson, Litt.D.

Secretary: Professor James Quayle Dealey, Ph.D.

Treasurer: William Washburn Moss, A.M.

Historian: Professor Wilfred Harold Munro, L.H.D.

Committee on Alumni and Honorary Membership: John Lincoln Alger, A.M., Professor William Thomson Hastings, A.M., Albert Benjamin West, A.M., the Secretary, *ex officio.*

Committee on Arrangements: The President, *ex officio*, Harold Crins Field, A.B., Edward Perkins Jastram, A.B.

Committee on New Chapters: Professor James Quayle Dealey, Ph.D., Professor Nathaniel French Davis, LL.D., Henry Herbert Waterman, A.M.

Committee on Nomination of Officers: Frank Leslie Day, A.M., Chester Willard Barrows, A.B., Frank Tourtellot Easton, A.B.

Auditor: Claude Raymond Branch, A.B.

MEN ELECTED IN 1917

Alumni: Frederick Luther Gamage, 1882, William Howe Tolman, 1882, William Edward Simonds, 1883, Theodore Francis Green, 1887, William Chauncy Langdon, 1892, Guy Montrose Whipple, 1897.

Seniors: Ralph Carlton Allen, Nelson Barlow, Edgar Otis Benson, Jr., Robert Gustavus Daniel Ljunggren, Eliot Horton Luther, James Stephen Powers, Thomas Bryant Smith, Harding DeCantillon Williams.

Juniors: Charles Gurney Edwards, William Miller Fay, George Julius Heidt, James Edward Paige, Wilfred Pickles, Alfred Sanger Pratt.

WOMEN'S ORGANIZATION

President: Miss Clara E. Comstock, A.M.

Vice-President: Mrs. Arthur M. Allen, A.B. (Vassar 1901).

Secretary-Treasurer: Mrs. Norman L. McCausland, Ph.B.

WOMEN ELECTED IN 1917

Seniors: Ruth Harvey Hall, Bessie Turner Keene, Lena Rose Lopiansky, Harriet Cutler Waterman.

Juniors: Dorothy Carter Allan, Hannah Grace Roach, Ruth Estella Wells.

THE BROWN CHAPTER OF THE SOCIETY OF THE SIGMA XI

Students who have taken at least fifty-two semester hours in pure or applied science are, in their Senior year, eligible to membership in the honorary scientific society, Sigma Xi, provided that they "have given promise of marked ability in those lines of work which it is the object of the Society to promote."

OFFICERS AND COMMITTEES FOR 1917–18

President: Professor Albert DeForest Palmer, Ph.D.
Vice-President: Professor Arthur Eugene Watson, A.M.
Recording Secretary: Professor James Alexander Hall, Sc.B.
Corresponding Secretary: Professor Philip Henry Mitchell, Ph.D.
Treasurer: Professor Clinton Harvey Currier, A.M.
Board of Electors: Professor Otis Everett Randall, Ph.D., Professor Albert DeForest Palmer, Ph.D., Professor Arthur Eugene Watson, A.M., Professor Charles Wilson Brown, A.M., Professor Herbert Eugene Walter, Ph.D., Professor Raymond Clare Archibald, Ph.D., Professor Hardy Cross, C.E.M., Professor Harlan Harvey York, Ph.D., Professor James Alexander Hall, Sc.B., Professor Robert Foster Chambers, Ph.D.
Entertainment Committee: Professor Stephen Sheldon Colvin, Ph.D., Professor Robert Foster Chambers, Ph.D., Theodore Henry Brown, Ph.D.

MEMBERS ELECTED IN 1917

Graduate Students: Marion Dodge Weston, Albert Clayton Hunter, Samuel Earl Longwell, Walter Chadwick Nelson, William Gould Vinal.

Seniors: Harriet Cutler Waterman, Hugh Bain, Edgar Otis Benson, Jr., Joseph Otis Fuller, John George Peterson, Richard Henry Van Horn.

THE ASSOCIATED ALUMNI

OFFICERS AND COMMITTEES FOR 1917–18

President: William Chace Greene, '75, Providence.
Vice-Presidents: Paul Churchill DeWolf, '05, Providence; Fred Tarbell Field, '00, Boston, Mass.
Secretary: Albert Knight Potter, '86, Providence.

Treasurer: Edward Tudor Gross, '01, Providence.

Executive Committee: Archibald Claflin Matteson, '93, Horace Paul Dorman, '96, George Anthony Gaskill, '98, Benjamin Barker, '81, Harold Crins Field, '94.

Advisory Board: George Fremont Bean, '81, Edward Otis Stanley, '76, Fred Homer Williams, '77, Edward Henry Weeks, '93, John Palmer Barstow, '02, Alfred Bertram Meacham, '96, the Secretary, *ex officio*, and representatives chosen by the Alumni Associations.

ALUMNI ASSOCIATIONS

Boston. *President*, Wesley E. Monk, '96. *Secretary*, Ralph B. Harris, '97, 2 Pinkham Street, Salem, Mass.

Newport. *President*, Rev. Franklin G. McKeever, '81. *Secretary and Treasurer*, Alfred G. Langley, '76, 1 School Street, Newport, R. I.

Woonsocket. *President*, Howard K. Jackson, '07. *Secretary*, Frederic Earle Whitaker, '88, 9 Longley Building, Woonsocket, R. I.

Fall River. *President*, Dr. John H. Lindsey, '92. *Secretary*, J. Terence C. McGuire, '12, Fall River, Mass.

Worcester County Sons of Brown. *President*, Appleton P. Williams, '89. *Secretary and Treasurer*, George E. Marble, n. '00, 72 Cambridge Street, Worcester, Mass.

Connecticut Valley. *President*, Rev. Edwin B. Dolan, '93. *Secretary and Treasurer*, Arthur S. Gaylord, '02, 362 Chestnut Street, Holyoke, Mass.

Plymouth County. *President*, Charles F. Reed, '85. *Secretary*, Harold A. Grout, '13, East Bridgewater, Mass.

New Bedford. *President*, Charles D. Dexter, '85. *Secretary and Treasurer*, Edward W. Holmes, '03, 661 County Street, New Bedford, Mass.

Washington and New London Counties. *President*, Henry R. Palmer, '90, Stonington, Ct.

Bristol. *President*, Hon. Augustus O. Bourn, '55. *Secretary*, Howard R. Newman, '08, 81 Burton Street, Bristol, R. I.

Lynn. *President*, Arthur W. Pinkham, '02. *Secretary and Treasurer*, William D. Morrill, '10, 21 Arlington Street, Lynn, Mass.

New Hampshire and Vermont. *President*, George I. Hopkins, '75. *Secretary*, Dr. Henry W. N. Bennett, '97, R. F. D., Londonderry, N. H.

Western Maine. *President*, George C. Wing, '00. *Secretary*, George S. Burgess, '12, Fidelity Building, Portland, Me.

Central Maine. *President*, Dr. J. K. Wilson, '73. *Secretary*, Clarence R. Johnson, '09, Waterville, Me.

New York City. *President*, Walter C. Wyckoff, '95. *Secretary*, Joseph K. Burwell, '13. c/o Equitable Trust Company, 37 Wall Street, New York City.

Albany. *President*, William G. Ely, '90. *Secretary and Treasurer*, Frank C. Hulse, '05, 423 Brandywine Avenue, Schenectady, N. Y.

Central New York. *Secretary and Treasurer*, Warren G. Bullard, '92, 613 South Crouse Avenue, Syracuse, N. Y.

Philadelphia. *President*, Jefferson Shiels, '82. *Secretary*, Charles S. Shinn, '06, 1324 Locust Street, Philadelphia, Pa.

Pittsburgh. *President*, Professor Allan H. Willet, Carnegie School of Technology, Pittsburgh, Pa.

Newark. *Secretary*, Rev. Albert W. H. Thompson, 828 De Graw Avenue, Newark, N. J.

Maryland and District of Columbia. *President*, Arthur D. Call, '96. *Secretary and Treasurer*, W. Clayton Carpenter, '06, 902 Hibbs Building, Washington, D. C.

Cleveland. *President*, Newton S. Calhoun, '79. *Secretary and Treasurer*, Joseph B. Keenan, '10, The University Club, Cleveland, Ohio.

Cincinnati. *President*, Eliab W. Coy, '58. *Secretary*, Samuel W. Smith, '80, 1805 Madison Road, Cincinnati, Ohio.

Chicago. *President*, Noble B. Judah, '72. *Secretary and Treasurer*, John T. Walker, Jr., '13, 415 North Green Street, Chicago, Ill.

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Indiana. *President*, John M. Judah, '67, Indianapolis, Ind.

Minnesota. *President*, Lucius P. Ordway, '83. *Secretary*, Harry W. Jones, '82, Lumber Exchange, Minneapolis, Minn.

Rocky Mountain. *President*, George S. Holmes, '04. *Secretary*, Luke J. Kavanaugh, '98, 722 Ernest and Cranmer Building, Denver, Colo.

Southern California. *President*, Richard W. Kirkley, '94. *Secretary*, John Knox, '87, 1414 Orange Drive, Los Angeles, Cal.

Puget Sound. *President*, Claude E. Stevens, '01. *Secretary*, Moncrieffe Cameron, '00, 304 Central Building, Seattle, Wash.

St. Louis. *President*, David S. H. Smith, '62. *Secretary*, Augustus L. Abbott, '80, 417 Pine Street, St. Louis, Mo.

THE ALUMNAE ASSOCIATION OF BROWN UNIVERSITY

OFFICERS FOR 1917–18

President: Miss Marion Shirley Cole, '07, Providence.
First Vice-President: Miss Ethel Gertrude Westcott, '00, Providence.
Second Vice-President (representing the New York Branch): Miss Ollie A. Randall, '12.
Third Vice-President (representing the Boston Branch): Mrs. Nathan R. Wood, '95.
Recording Secretary: Mrs. James Pearse, '99, Providence.
Corresponding Secretary: Miss Louise M. J. Brough, '97, 13 Pomona Avenue, Providence.
Treasurer: Miss Eva W. Magoon, '11, 47 Dixon Street, Providence.

ALUMNAE CLUBS

New York. *President*, Miss Agnes E. Clark, '99. *Vice-President*, Mrs. Robert Magrane, '09. *Treasurer*, Mrs. George H. Sherwood, '99. *Secretary*, Miss Annette Milligan, '04, 92 Hamilton Avenue, Yonkers, N. Y.

Boston. *President*, Miss Abigail D. Steere, '10. *Vice-President*, Mrs. Nathan R. Wood, '95. *Recording Secretary and Treasurer*, Mrs. J. A. Peterson, '01. *Corresponding Secretary*, Mrs. C. I. Gates, '97, 94 Kenwood Street, Dorchester, Mass.

Connecticut Valley. *President*, Mrs. George B. Affleck, '03. *Vice-President*, Miss A. Louise Williams, '99. *Secretary-Treasurer*, Miss Bessie G. Roche, '13, 118 Sigourney Street, Hartford, Ct.

TABLE SHOWING RENT AND LOCATION OF DORMITORY ROOMS

HOPE COLLEGE

No.	*Division*	*Floor*	*Windows face*	*Bedrooms*	*Rent*
1	South	1	E. & S.	There are no separate bedrooms, but Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40, 43 and 44, can be used either as suites or as single rooms.	$136
2	"	"	W. & S.		142
3	"	"	W.		136
4	"	"	E.		133
5	"	2	E. & S.		136
6	"	"	W. & S.		142
7	"	"	W.		136
8	"	"	E.		133
9	"	3	E. & S.		127
10	"	"	W. & S.		133
11	"	"	W.		127
12	"	"	E.		121
13	"	4	E. & S.		121
14	"	"	W. & S.		127
15	"	"	W.		121
16	"	"	E.		118
17	Middle	1	E.		133
18	"	"	W.		136
19	"	"	W.		136
20	"	"	E.		133
21	"	2	E.		133
22	"	"	W.		136
23	"	"	W.		136
24	"	"	E.		133
25	"	3	E.		121
26	"	"	W.		127
27	"	"	W.		127
28	"	"	E.		121
29	"	4	E.		118
30	"	"	W.		121
31	"	"	W.		121
32	"	"	E.		118
33	North	1	E.		133
34	"	"	W.		136
35	"	"	W.		148
36	"	"	E.		148
37	"	2	E.		133
38	"	"	W.		136
39	"	"	W. & N.		148
40	"	"	E. & N.		148
41	"	3	E.		121
42	"	"	W.		127
43	"	"	W. & N.		136
44	"	"	E. & N.		136
45	"	4	E.		118
46	"	"	W.		121
47	"	"	W. & N.		127
48	"	"	E. & N.		127

UNIVERSITY HALL

No.	*Division*	*Floor*	*Windows face*	*Bedrooms*	*Rent*
10	South	2	S. & W.	1	$235
12	"	"	W.	*None*	125
13	"	"	W.	"	125
16	"	"	E.	"	110
17	"	"	E.	"	116
18	"	"	E. & S.	"	143
19	"	3	S. & W.	1	225
21	"	"	W.	*None*	122
22	"	"	W.	"	122
25	"	"	E.	"	110
26	"	"	E.	"	110
27	"	"	E. & S.	"	131
28	"	4	S. & W.	1	205
30	"	"	W.	*None*	110
31	"	"	W.	"	110
32	"	"	E.	"	107
33	"	"	E.	"	107
34	"	"	E. & S.	"	131
40	North	2	W.	"	125
41	"	"	W.	"	125
44	"	"	E. & N.	*None*	131
45	"	"	E.	"	116
46	"	"	E.	"	116
47	"	3	W.	"	116
48	"	"	W.	"	116
50	"	"	W. & N.	1	225
51	"	"	E. & N.	*None*	125
52	"	"	E.	"	110
53	"	"	E.	"	110
54	"	4	W.	"	110
55	"	"	W.	"	110
57	"	"	W. & N.	1	195
58	"	"	E. & N.	*None*	125
59	"	"	E.	"	107
60	"	"	E.	"	107

SLATER HALL

1	South	1	E. S. & W.	2	260.00
2	"	"	E. & W.	1	200.00
3	"	2	E. S. & W.	2	260.00
4	"	"	E. & W.	2	245.00
5	"	3	E. S. & W.	2	250.00
6	"	"	E. & W.	2	245.00
7	"	4	E. S. & W.	1	175.00
8, 9	"	"	W.	1	194.00
10	North	1	E. & W.	2	269.50
11	"	"	E. W. & N.	2	269.50

SLATER HALL (*continued*)

No.	*Division*	*Floor*	*Windows face*	*Bedrooms*	*Rent*
12	North	2	E. & W.	2	$269.50
14	"	"	W. N. E.	2	286.00
15	"	3	W. & E.	2	264.00
17	"	"	W. N. E.	2	275.00
18, 19	"	4	E. & W.	1	206.80
20	"	"	W. N. E.	1	176.00

CASWELL HALL

1	North	1	E. N. & W.	1	375
2	"	"	E. & W.	1	350
3	"	2	E. N. & W.	2	375
4	"	"	E. & W.	2	350
5	"	3	E. N. & W.	2	375
6	"	"	E. & W.	2	350
7	"	4	E. & N.	*None*	195
8	"	"	W. & N.	"	195
9	"	"	W.	"	165
10	"	"	E.	"	165
11	Middle	1	"	"	175
12	"	"	W.	"	175
13	"	"	"	"	175
14	"	"	E.	"	175
15	"	2	"	"	185
16	"	2	W.	"	185
17	"	"	"	"	185
18	"	"	E.	"	185
19	"	3	"	"	185
20	"	"	W.	"	185
21	"	"	"	"	185
22	"	"	E.	"	185
23	"	4	"	"	165
24	"	"	W.	"	165
25	"	"	"	"	165
26	"	"	E.	"	165
27	South	1	E. & W.	1	350
28	"	1	E. S. & W.	1	375
29	"	2	E. & W.	2	350
30	"	"	E. S. & W.	2	375
31	"	3	E. & W.	2	350
32	"	"	E. S. & W.	2	375
33	"	4	E.	*None*	165
34	"	"	W.	"	165
35	"	"	W. & S.	"	195
36	"	"	E. & S.	"	195

MAXCY HALL

No.	*Floor*	*Windows face*	*Rent*
313	3	E.	$140
314	"	"	140
315	"	E. & S.	140
316	"	W. & S.	135
317	"	W.	135
318	"	"	135
319	"	"	135
320	"	"	135
321	"	W. & N.	135
322	"	E. & N.	140
323	"	E.	140
324	"	"	140
425	4	"	140
426	"	"	140
427	"	E. & S.	140
428	"	W. & S.	135
429	"	W.	135
430	"	"	135
431	"	"	135
432	"	"	135
433	"	W. & N.	135
434	"	E. & N.	140
435	"	E.	140
436	"	"	140

DIRECTORY TO THE DORMITORIES

Hope College, South Division, Rooms 1 to 16.
Hope College, Middle Division, Rooms 17 to 32.
Hope College, North Division, Rooms 33 to 48.
Maxcy Hall, Rooms 313 to 436.
Slater Hall, South Division, Rooms 1 to 9.
Slater Hall, North Division, Rooms 10 to 20.
University Hall, South Division, Rooms 1 to 34.
University Hall, North Division, Rooms 35 to 61.
Caswell Hall, North Division, Rooms 1 to 10.
Caswell Hall, Middle Division, Rooms 11 to 26.
Caswell Hall, South Division, Rooms 27 to 36.

SUMMARY OF REGISTRATION

UNDERGRADUATE MEN

Seniors	82
Juniors	117
Sophomores	177
Freshmen	203
Special Students	30
Total	609

THE WOMEN'S COLLEGE

Seniors	51
Juniors	49
Sophomores	66
Freshmen	67
Special Students	16
Total	249

GENERAL SUMMARY

Graduates	83
Undergraduate Men	609
Women's College	249
	941
Deduct for names counted twice	4
Total	937
Registered in Extension Courses, first semester, 1917–18, and not included above	354

PUBLICATIONS

The following list includes the official publications of the University with other pamphlets and periodical publications of interest to alumni and friends of the University.

Unless otherwise stated, copies of any of these publications may be obtained by applying to the Registrar, Brown University.

Bulletin of Brown University

This series includes the Annual Catalogue of Brown University; Annual Report of the President to the Corporation; Program of Commencement Week; Announcement of Courses for the following year; Announcement of Courses for the Women's College.

The Annual Report of the Treasurer

The Historical Catalogue of Brown University, 1764–1914

This Catalogue gives the names of all persons who have been connected with Brown University, with brief biographical data, and the present addresses of living graduates.

789 pages, cloth, $1.25, delivered. Copies of the Historical Catalogue, 1764–1904, may still be obtained. Price $1.00, delivered. Address the Keeper of Graduate Records, Brown University, and make checks payable to Brown University.

The History of Brown University, 1764–1914

By Walter Cochrane Bronson, Litt.D., Professor of English Literature. Published in connection with the celebration of the one hundred and fiftieth anniversary of the founding of the University.

548 pages, cloth, $2.00, delivered. Printed by D. B. Updike, at The Merrymount Press, Boston, Mass. Address the Library, Brown University, and make checks payable to Brown University.

The Sesqui-Centennial of Brown University, 1764–1914. A Commemoration

Edited by William Vail Kellen, Ph.D., LL.D. A graphic account of the Celebration with all the addresses in full.

307 pages, cloth, $2.50, delivered. Printed by D. B. Updike, at The Merrymount Press, Boston, Mass. Address the Library, Brown University, and make checks payable to Brown University.

THE CHARLES K. COLVER LECTURES

The American Conception of Liberty and the American Conception of Government. By Frank Johnson Goodnow, LL.D., President of Johns Hopkins University.

Price, fifty cents, delivered. Address the Library, Brown University, and make checks payable to Brown University.

Medical Research and Human Welfare. By William Williams Keen, M.D., LL.D.

Price $1.25 net. Address Houghton Mifflin Co., Boston, Mass.

STUDENT LIFE AT BROWN

Published by Alumni.

A pamphlet of 28 pages, with illustrations.

THE BROWN ALUMNI MONTHLY

Published by Alumni.

Subscription price $1.00 a year. Address Brown Alumni Monthly, Brown University.

THE WOMEN'S COLLEGE BOOKLET

Published by the College.

A pamphlet with illustrations. Address the Registrar, Pembroke Hall, Providence.

THE ALUMNAE RECORD

Published yearly by the Alumnae.

Address the Registrar, Pembroke Hall, Providence.

DIRECTORY OF OFFICERS AND STUDENTS AND INDEX

DIRECTORY OF OFFICERS AND STUDENTS

The addresses given are in Providence, unless otherwise stated. If an officer is on leave of absence for the year, his name is bracketed. The following abbreviations are used: *Fr.* = Freshman; *So.* = Sophomore; *Jr.* = Junior; *Sr.* = Senior; *Sp.* = Special Student; *Gr.* = Graduate Student; *W.* = Women's College; *J. C. B. L.* = John Carter Brown Library; H. = Hope College; U. = University Hall; S. = Slater Hall; M. = Maxcy Hall; C. = Caswell Hall; B. = Brunonia Hall; 65 College = 65 College Street, Providence, etc. Where no state is mentioned, Rhode Island is to be understood. The number *precedes* the name of a street, but *follows* the name of a building.

Abbot, C. W., *Prof.* Warren
Abbott, A. L., *Trustee* 415 Pine, St. Louis, Mo.
Abbott, C. F., *So.* 110 Waterman
Abbott, C. H., *Gr.* Arnold Lab.
Abercrombie, D. W., *Trustee* Worcester, Mass.
Abrich, S. D., *W. Fr.* 216 Bellevue Ave.
Adam, F. S., *Fr.* H. 1
Adam, J., *Fr.* U. 48
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Adams, G. H., *Fr.* H. 15
Adams, V. F., *So.* 94 Angell
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Affleck, G. B., *Fr.* 4 Manning
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Allen, Miss R. L., *Gr.* Apponaug
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Allinson, Mrs. F. G., *Adv. Council, W.* 163 George
Allison, R. F., *Fr.* 56 Warren Ave., E. Providence
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Anthony, M. E., *W. Sr.* 98 Cushing
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Arnold, I. E., *W. Sr.* 468 Plainfield
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Beagan, J. G., *Fr.* 140 Cypress
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Bowen, E. H., *Jr.* U. 51
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Clough, E. T., *So.* U. 17
Cochrane, E. G., *Fr.* 333 Friendship
Cohen, J. I., *Jr.* 174 Lippitt
Cohen, M. L., *Fr.* 7 Bugbee Court
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Cook, Z. M., *W. Fr.*
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Crapo, L. L., *W. Fr.* 118 Cushing
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The Minden
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Cuddeback, C. E., *Fr.* 108 Waterman
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109 Smithfield Road, No. Prov.
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Dane, R. H., *W. Sp.* 82 Mawney
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159 Brown
Davis, P. W., *So.* 49 Wilson
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Dealey, Miss H. L., *Gr.* 872 Hope
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Denison, C. H., *So.* H. 13
Depoyan, H. M., *Gr.* 42 Hammond
Dewart, W. L., Jr., *So.* 4 Manning
Dewey, R. K., *So.* H. 11
Dexter, R. E., *Jr.* 167 Angell
Dillingham, A. E., *Sr.* H. 14
Dimick, G. P., *W. Fr.*
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Edwards, C. G., *Sr.* 54 College
Edwards, W. H., 2d, *Jr.* 54 College
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Ellis, W. B., *Fr.* No. S.
Ely, L. C., *Fr.* U. 10
Ely, W. G., Jr., *So.* 4 Manning
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Esty, J. R., *Gr. Asst.* 245 Canal
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Fay, F. C., Jr., *Sr.* 108 Waterman
Fay, W. M., *Sr.* 108 Waterman
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Foster, E. M., *Sr.* 10 Congdon

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Fox, S. A., *Jr.* 9 Pratt
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Gardner, W. R., *So.* 54 Stimson Ave.
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Gates, M. R., *W. So.* 14 Kenwood
Gibling, H. F., *Jr.* 17 Creighton
Gibson, J. B., *Sec. B. U. C. A.* 149 Ivy
Gifford, S. B., *So.* 60 Charles Field
Gilbert, F. A., *W. Fr.* 98 Cushing
Gildersleeve, G. H., *So.* No. S.
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Goldberg, N., *W. So.* 118 Cushing
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Goodman, R. F., *Fr.* 36 Eighth
Gordon, B. M., *Jr.* 94 Angell
Gordon, H. R., *Jr.* 4 Manning
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Goulett, Z. M., *W. So.* 118 Cushing
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Hall, J. A., *Asst. Prof.* 13 Elton
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Mushlin, S., *So.* 81 Gay

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Palmer, R. T., *So.* 4 Manning
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John Nicholas Brown Gate (1904), gift of Mrs. John Nicholas Brown.

William Goddard Gate (1910), given by Mrs. C. Oliver Iselin, in memory of her father.

Maxcy Hall (1895): dormitory, lecture rooms, seminary rooms, botanical laboratory, herbarium.

Lyman Gymnasium (1891), gift of Daniel Wanton Lyman; with Colgate Hoyt Swimming Pool (1903), gift of Colgate Hoyt.

Engineering Building (1903): laboratories and lecture rooms of the departments of Mechanics and Mechanical Drawing and of Mechanical and Civil Engineering.

Caswell Hall (1903): dormitory.

President's House (1901).

Pembroke Hall (1897), built by the Rhode Island Society for the Collegiate Education of Women: recitation building of the Women's College.

Sayles Gymnasium (1906), gift of Frank Arthur Sayles: gymnasium of the Women's College.

Miller Hall (1910), gift of friends of the University: dormitory of the Women's College.

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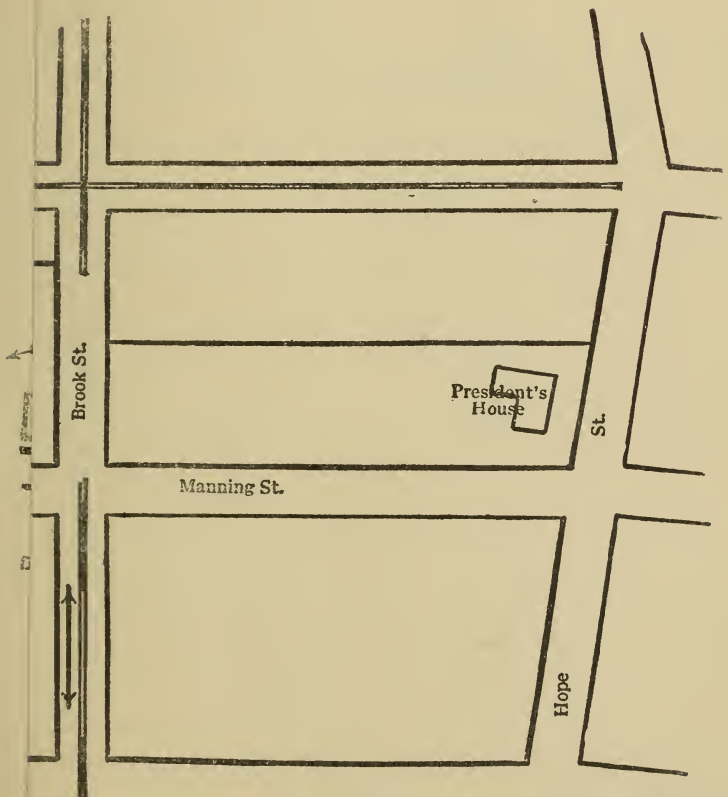
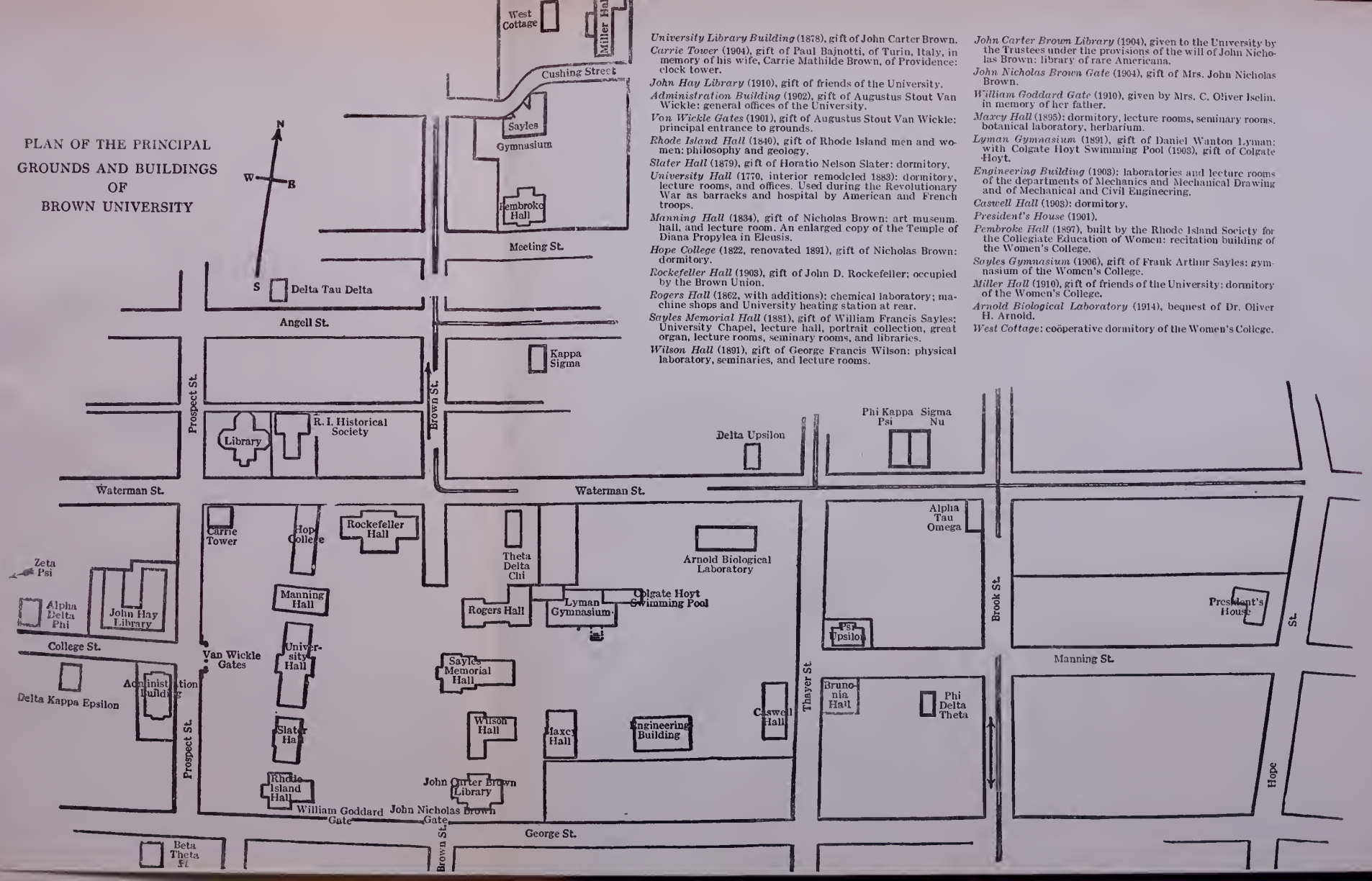
West Cottage: coöperative dormitory of the Women's College.



PLAN OF THE PRINCIPAL GROUNDS AND BUILDINGS OF BROWN UNIVERSITY



University Library Building (1878), gift of John Carter Brown.

Carrie Tower (1904), gift of Paul Bajnotti, of Turin, Italy, in memory of his wife, Carrie Mathilde Brown, of Providence: clock tower.

John Hay Library (1910), gift of friends of the University.

Administration Building (1902), gift of Augustus Stout Van Wickle: general offices of the University.

Von Wickle Gates (1901), gift of Augustus Stout Van Wickle: principal entrance to grounds.

Rhode Island Hall (1840), gift of Rhode Island men and women: philosophy and geology.

Slater Hall (1879), gift of Horatio Nelson Slater: dormitory.

University Hall (1770, interior remodeled 1883): dormitory, lecture rooms, and offices. Used during the Revolutionary War as barracks and hospital by American and French troops.

Manning Hall (1834), gift of Nicholas Brown: art museum, hall, and lecture room. An enlarged copy of the Temple of Diana Propylea in Eleusis.

Hope College (1822, renovated 1891), gift of Nicholas Brown: dormitory.

Rockefeller Hall (1903), gift of John D. Rockefeller; occupied by the Brown Union.

Rogers Hall (1862, with additions): chemical laboratory; machine shops and University heating station at rear.

Sayles Memorial Hall (1881), gift of William Francis Sayles: University Chapel, lecture hall, portrait collection, great organ, lecture rooms, seminary rooms, and libraries.

Wilson Hall (1891), gift of George Francis Wilson: physical laboratory, seminaries, and lecture rooms.

John Carter Brown Library (1904), given to the University by the Trustees under the provisions of the will of John Nicholas Brown: library of rare Americana.

John Nicholas Brown Gate (1904), gift of Mrs. John Nicholas Brown.

William Goddard Gate (1910), given by Mrs. C. Oliver Iselin, in memory of her father.

Maxcy Hall (1895): dormitory, lecture rooms, seminary rooms, botanical laboratory, herbarium.

Lyman Gymnasium (1891), gift of Daniel Wanton Lyman; with Colgate Hoyt Swimming Pool (1903), gift of Colgate Hoyt.

Engineering Building (1903): laboratories and lecture rooms of the departments of Mechanics and Mechanical Drawing and of Mechanical and Civil Engineering.

Caswell Hall (1903): dormitory.

President's House (1901).

Pembroke Hall (1897), built by the Rhode Island Society for the Collegiate Education of Women: recitation building of the Women's College.

Sayles Gymnasium (1906), gift of Frank Arthur Sayles: gymnasium of the Women's College.

Miller Hall (1910), gift of friends of the University: dormitory of the Women's College.

Arnold Biological Laboratory (1914), bequest of Dr. Oliver H. Arnold.

West Cottage: coöperative dormitory of the Women's College.

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